

HORTICULTURAL ABSTRACTS

VOLUME XVI

Part 1 Issued March, 1946

Part 2 „ June, 1946

Part 3 „ September, 1946

Part 4 „ December, 1946

Compiled and published by the
IMPERIAL BUREAU OF HORTICULTURE AND PLANTATION CROPS,
EAST MALLING, KENT, ENGLAND

INDEX OF NAMES

Horticultural Abstracts, Vol. XVI

N.B.—Brackets round the name denote that this person, although not the author, was directly or indirectly concerned with the article.

- Aalsmeer, Proeftuin, 548, 549, 1206
 Abbot, C., 1992
 Achaya, K. T., 492
 Acuña, J. B., 845, 846, 848
 Adam, J., 1839
 Adam, W. B., 2008, 2284, 2286
 Addoms, R. M., 592
 Adriaens, L., 1073
 Aduar, K., 2196
 Afanasiev, M. M., 711
 Afanasjev, A., 2041
 Aggery, —, 1580
 Agricultural Improvement Council Committee, 1976
 L'Agronomie tropicale, 1207
 Ahlberg, 638, 2023, 2032
 Ahmad, S., 1482
 Akimceva, S. R., 216
 Alabouvette, L., 1494
 Alam, Z., 1483
 Alban, E. K., 210
 Alberti, M. M., 998
 Albrecht, W. A., 1739
 Alcaraz Mira, E., 255
 Alderman, D. C., 1675
 Aldrich, W. W., 440, 1605, 1606
 Algérie, 550
 Alibert, H., 1097
 Allegaert, —, 313
 Allegaert, E., 292, 912
 Allen, F. W., 1830
 Allen, T. C., 820, 822a, 910, 951
 Allington, W. B., 955, 1544, 1558a
 Allmendinger, D. F., 1832
 Alm, F., 26
 Alonso, R. E., 846, 849
 Alpatiev, A., 922
 Altuhov, M., 882
 Alvim-Carneiro, P. de T., 1057
 Amsler, M., 364
 Amsterdam, Proeftuin Hollandisch-Utrechtsch Veendistrict, 1208
 Andersen, E. M., 346
 Anderssen, E. E., 9641
 Andersson, F., 1456
 Andersson, G., 2065
 André, M., 1547
 Andrés, F., 2040
 Andrés, J. M., 2242a
 Andrews, F. W., 1539
 Anet, M., 738
 Angel I Aymerich, J., 1262
 Anliker, J., 11
 Anon., 10, 44, 47, 49, 51, 77, 80, 164, 174, 194, 222, 224, 225, 308, 310, 328, 342, 448, 474, 630, 713, 715, 727, 749, 754, 764, 787, 825, 826, 1029, 1030, 1043, 1065, 1081, 1124, 1136, 1142, 1153, 1159, 1174, 1266a, 1582, 1729a, 1793, 1867, 2024, 2053, 2138, 2206, 2275, 2293
 Anscombe, F. J., 2152g
 App, F., 213, 1662
 Apple, J. W., 911
 Appleman, C. O., 1756
 Applezweig, N., 1192a
 Argles, G. K., 1610
 Armstrong, T., 1410
 Arnaud, G., 1345, 1381, 1484
 Arndt, F. R., 1055a
 De Arruda Veiga, Alceu, 1111, 1604
 De Arruda Veiga, Ary, 1672
 Artschwager, E., 902
 Ashby, B. A., 892
 Ashby, E., 1238
 Ashby, K. H., 2151
 Aslib, 1690
 van Asperen, K., 775
 Atkins, C. D., 1172
 Atkinson, F. E., 1162 (Atkinson, F. E.), 1655
 Attoe, O. J., 964a
 Aubert, P., 657
 Australia, C.S.I.R., 2320
 *Avdonin, N., 861
 Avery, G. S., 1750, 1751
 Bacchi, O., 1078
 Bacher, T., 1193
 Baer, H., 2010a
 Baetge, —, 580
 Bagenal, N. B., 662, 1790
 Baier, W. E., 1173
 Bailey, J. S., 1917
 Bain, F. M., 409, 422
 Baker, E. W., 822o
 Baker, G. A., 1376, 1869
 Baker, G. L., 519, 520, 527
 Baker, K. F., 1572, 1576, 2123, 2137
 Bakke, A. L., 169
 Bakker, J., 2159, 2161
 Bakker, M., 935
 Balachowsky, A., 1396
 Balle, S., 444
 Balock, J. W., 2255
 Banga, O., 309, 317, 332
 Banga-Oelmeyer, L. J. M., 712
 Bannan, M. W., 272
 Banta, E., 157
 Barahona Z., J., 2205
 Barbados Department of Agriculture, 1729b
 Barbut, M., 1314a
 Barclay, C., 1251
 Barcroft, J., 1147
 Bardia i Bardia, R., 1417
 Barker, B. T. P., 1787, 2270, 2271
 De Barker, G., 733
 Barnard, C., 2057
 Baron, C., 1916, 1927
 Barratt, R. W., 1983
 Barraud, M., 1384, 1387
 Barrett, R. W., 1084
 Barrons, K. C., 1513, 1555
 Barrows, F. L., 408a
 Barthelet, J., 1347, 1350, 1562, 2162
 Bartholomew, E. T., 1008, 2177
 Bartholomew, R. P., 6
 Bartner, E., 1770
 Bartram, H., 251
 Bastisse, E., 1333
 Bastos de Menezes, O., 456
 Basutoland Department of Agriculture, 2337a
 Bateman, A. J., 1459
 Bateman, M., 1730
 Bate-Smith, E. C., 2243
 Bathurst, A. C., 1586
 Batjer, L. P., 91, 97, 98, 1312
 Batten, E. T., 2191
 Baudisch, O., 20
 Bauernfeind, J. C., 2267, 2268
 Bawden, F. C., 1351
 Bazavluk, V., 241
 Bazyna, I., 1171
 Beach, F. H., 170
 Beach, W. S., 731
 Beakbane, A. B., 1809
 Beal, J. M., 1745
 Bear, F. E., 1875
 Beard, F. H., 2044, 2045, 2046
 Beare, J. A., 131, 822i
 Beater, B. E., 629
 Beaugendre, R., 1401
 Beck, W. A., 34c
 van Beekom, C. W. C., 295, 898, 901
 Beeson, C. F. C., 1764
 Beeson, K. C., 127, 1757
 Bégon, H., 1689d
 Beirnaert, A., 2199
 Beketovskii, D. N., 380
 Belenger, E., 984
 Belohonov, I., 661
 Beltran, E., 1266f, 1452a, 1689b
 Belval, H., 1503
 Benne, E. J., 30, 604, 605, 2005
 Bennett, E., 299
 Bennett, H. H., 631
 Bennett, J. P., 130
 Bennett, S. H., 1405
 Bennett, S. M., 1933
 Benton, R. J., 1005
 Berg, A., 1332
 Bergamin, J., 467, 1092, 1093
 Berger, G., 1530
 Berkeley, G. H., 742
 Bernard, E., 1230a
 Bernard, F., 2269
 Bernon, G., 1361, 1691
 Bernstein, L., 359a
 Bertrand, D., 1256
 Bertrand, G., 1256
 Bertrand, H. W. R., 1122
 Bessey, O. A., 1163
 Besson, —, 1940
 Best, R. J., 256
 Betts, E. M., 1266b
 Bevengut, —, 1421
 Beyer, J. J., 387
 Bezinger, E., 1171
 Biale, J. B., 2251
 Bieri, F., 1299
 Bierig, A., 1042, 1064
 Bigg, I. C., 1034
 Billback, B., 1293
 Bingham, G. H., 790
 Birdsall, B. J., 442
 (Birdseye, C.), 1179
 Birjuzov, I., 581
 Björling, K., 1896, 1901
 Bjørnseth, E. H., 209
 Blaauw, A. H., 295, 296, 396
 Black, C. A., 252
 Black, L. M., 219, 1537, 1538
 Blackith, R. E., 801
 Blackman, G. E., 859, 1919
 Blagoveshchensky, A., 613
 Blair, D., 1287
 Blair, D. S., 701
 Blake, M. A., 123, 663
 Blanch, G. T., 699
 Blanchard, —, 1536
 Blaser, R. E., 652
 Blauvelt, W. E., 1452b
 Bledsoe, R. W., 1053, 2195
 Blencowe, J. W., 2121
 Bliss, D. E., 1377
 Blodgett, E. C., 1887
 Blondeau, R., 2071, 2072
 Blumenfeld, K., 1491
 Blunck, H., 384
 Bobko, E., 273
 Bobko, E. V., 607, 612
 Bock, E., 1426
 Boczkowska, M., 1474, 1475
 Bodart, J., 1813, 1814, 1815
 de Boer, S., 997
 Bohn, G. W., 746
 Bokučava, M. A., 1166
 Bolas, B. D., 1871
 Bomford, D. R., 1732
 Bomhard, M. L., 1132
 Bond, T. E. T., 2208
 Bondi, A., 2261
 Bonilla Arguedas, G., 1208
 Bonner, J., 2076
 Booser, J. R., 899
 Boogaard, J. L., 575

INDEX OF NAMES

- outh, V. H., 2262
 rden, R. J., 1771a
 rg, A., 359d
 rgström, G., 2246, 2256a
 irthwick, H. A., 297, 176,
 2139
 os, J., 781
 asch, J., 1326a
 ose, A. C., 651
 ose, S. R., 1971
 skkoop, "De Proeftuin",
 1209, 1210
 uas, R., 1452a
 urne, A. T., 1917
 ovey, P., 776, 777, 786
 wman, D. E., 359b
 wman, F. T., 88
 oyce, A. M., 806, 1037
 oyd, O. C., 298
 yko, H., 583
 yyle, L. W., 1903
 ynton, D., 66, 115, 132,
 140
 dy, N. C., 1051, 1052
 agina, F., 878
 ain, E. D., 1754
 anas, J., 1358, 1361, 1423,
 1691, 1855, 1911
 and, D. D., 1266c
 n den Brande, F., 264, 385
 n den Brande, J., 223, 227,
 451
 annon, L. W., 950, 953
 ase, K. D., 60
 asher, E. P., 1651
 ay, A., 1194
 ay, R. H., 15, 625
 eddy, N. C., 2167
 egger, J. T., 1308
 emer, A. H.), 1221, 1222,
 1223
 emond, E., 1676, 1678,
 1689a, 1689c
 ett, C. H., 1986
 ian, P. W., 1429, 1452c
 icht, J., 660
 iejer, C. J., 995
 ierley, P., 1508, 1509
 ierley, W. G., 139
 ignet, H., 656
 indley, T. A., 1553
 ison, F. R., 1653
 ison, H., 39
 itish Guiana, Director of
 Agriculture, 2321
 ritten, J. E.), 1655
 oadfoot, H., 78
 odski, —, 1583
 own, A. M., 247
 own, C. A. C., 633
 own, E., 965
 own, H. D., 210, 283
 own, J. W., 1747, 1748
 own, M. B., 538b, 2145
 own, R. G., 1756
 owne, C. A., 571
 uce, M. E., 1196
 uce, W. N., 2095
 n den Bruel, W. E., 1934
 uneteau, —, 1388
 uneteau, J., 1393
 unn, L. K., 820, 910
 yan, J., 640
 yan, J. D., 2260, 2264

 Bryant, G. E., 1099
 Bryant, J. C., 618
 Bryant, L. R., 1535
 Bryce, W. A., 533
 Bryden, J. D., 735
 Bryner, W., 46, 1299, 1803,
 1834, 1861
 Buckhurst, C. D., 366
 Bugojavlenski, A. A., 931
 Buitenpost, 1211
 Bullingham, J. H., 2011
 (Burger, H.), 1298
 Burkart, A., 1633
 Burkholder, P. R., 68
 Burkholder, W. H., 945
 Burrell, A. B., 140
 Burrell, R. C., 283
 Burroughs, L. F., 1787, 2270
 Burström, D., 26
 Bushnell, J., 2092
 Buston, H. W., 2010b
 Busvine, J. R., 186, 1987
 Butler, C. G., 1823

 Cadilla de Martínez, M.,
 1003
 Cahill, V., 1023
 Čailachjan, M. H., 14, 594,
 595, 596, 601
 Čailahjan, M., 515
 Calavan, E. C., 1593
 Caldwell, J., 2121
 Caldwell, J. S., 521, 531,
 1527
 Callan, E. McC., 455, 1617
 Calzocchi-Onesti, A., 1505
 Camargo, F., 478
 Camargo, F. C., 2237
 De Camargo, R., 464
 Camblat, L., 1476
 Cameron, A. E., 1012, 1031
 Cameron, S. H., 415, 416
 Caminha Filho, A., 475
 Camp, A. F., 31, 1013
 (Camp, A. F.), 1014
 Campbell, T. G., 1953
 Campbell, W. A., 279
 Campden, Fruit and Vege-
 table Preservation
 Research Station, 2322
 de Campos Carvalho Godin-
 ho, M. A., 2290
 Canada, Department of
 Agriculture, 1705
 Canada, Division of Horti-
 culture, 538a
 Canada, Minister of Agri-
 culture, 1212
 Canada, National Research
 Council, 551
 Canadian Committee on
 Food Preservation, 1654
 Cannon, W. B., 34a
 Capoor, S. P., 1102
 Capucci, C., 1853
 Carlson, J. P., 441a
 Carlson, R. F., 54, 55, 1000
 Carmin, J., 1491, 1523, 1542
 Carter, G. F., 2106
 Carter, M., 334
 Carter, W., 1146a
 Cartier, J. L., 954
 de Carvalho Godinho, M. A.,
 2288

 de Carvalho E Vasconcellos,
 J., 1318
 Cashmore, A. B., 1953
 Catlow, E., 2037, 2078
 van Cauwenberghe, E., 1788,
 1810, 1845a, 1980
 Cavallito, C. J., 822b
 Cawthron Institute, 1213,
 1231, 1232
 Cecil, S. R., 525
 Central Experimental Farm,
 Ottawa, Fruit Products
 Laboratory, 1655
 Cerighelli, R., 2142
 Černenko, C. F. (Editor),
 2296
 Černov, I. C., 337
 Česnokov, V. A., 286
 Ceylon Department of Agri-
 culture, 552
 Ceylon Director of Agricul-
 ture, 2323
 Ceylon, Rubber Research
 Board, 1214
 Ceylon, Tea Research Insti-
 tute, 1215
 Chaboussou, —, 1398
 Chaboussou, F., 1415
 Chaidez, I., 1049
 Chakravarti, S. C., 854
 Chamberlain, G. C., 153
 Chambers, E. L., 176
 Chanda, R., 1189
 Chandraratna, M. F., 2207
 Chang, H. T., 34b
 Chang-Chih, Hu, 412
 Chapman, A. J., 2087
 Chappaz, G., 1386
 Chappellier, A., 1447, 1471
 Chaptal, L., 1237
 Charavanapavan, C., 2292
 Cheal, W. F., 664, 695, 709
 Cheesman, E. E., 1095, 2215,
 2216
 Chenery, E. M., 2163
 Cheng, T.-H., 2109
 Cherednichenko, A. F., 870,
 877
 Cheshunt Experimental and
 Research Station, 1706
 Chevalier, M., 1400, 1401,
 1411, 1473, 1926
 Chien-Chi, W., 412
 Childers, N. F., 447, 1109
 Childs, L., 755
 Ching-Chao, W., 504
 Chisholm, R. D., 2010c
 Cholodny, N. G., 589
 Chouard, P., 1234, 1243,
 1250, 1259, 1528, 2113
 Chowdhury, S., 1074, 1139,
 1486, 1643, 1644
 Christensen, C. M., 1349
 Christiansen, J. E., 1464
 Christiansen, W., 539
 Christopher, E. P., 501, 502
 Chucka, J. A., 134
 Chupp, C., 731
 Ciferri, R., 1328
 Čižov, S. T., 324
 Claassen, C. E., 261
 Claessens, J., 2217
 Clancy, D. W., 1919
 Clark, F., 1053

 Clausen, C. P., 1967
 Clausen, R., 768
 Clausen, R. T., 1448
 Cleveland, C. R., 1452d
 Clibbens, D. A., 1071
 Clulo, G., 1332
 Cluney, W., 1156a
 Cochran, G. W., 53
 Cochran, L. C., 1356
 Cochran, V. W., 2160
 Cochran, W. G., 2026
 Coe, D. M., 403
 Coe, F. M., 705, 1292
 Coelho de Souza, W. W.,
 1083
 Cohen, M., 2004
 Cohen, P. P., 2152a
 Cohen, S. I., 1514
 Coit, J. E., 481, 1609
 Colby, A. S., 1315
 Colby, W. G., 294
 Cole, C. E., 1009
 Colhoun, J., 249, 250
 Colonial Office, London, 553
 Colquhoun, T. T., 933
 Colvin, D. L., 1150
 Colwell, W. E., 1051, 1052,
 1760, 2192
 Comar, C. L., 604
 Commission Pomologique
 Romande, 540
 Compton, O. C., 66, 415
 Conceição, A., 1021, 1036
 Conde Thillet, M. L., 1072
 Condit, I. J., 65
 Connors, C. H., 375
 Conrad, R., 1299
 Cook, E. J., 586
 Cook, R. P., 532, 538b, 2145,
 2152b
 Cook, W. M. P., 246
 Cooley, J. S., 747
 Cooper, H. F., 24
 Cooper, W. C., 817, 2203,
 2234
 Copley, G. H., 2027, 2297
 Corbett, W., 1526
 Cornet, J., 1798, 1881
 Correa, A., 1087, 1088
 Cortes, R., 2219
 Cory, E. N., 1561, 2010j
 Cosper, L., 2114
 da Costa e Sousa, L. de
 O. M., 1321
 Cottier, W., 767
 Cottrell-Dormer, W., 926
 Couch, J. F., 1492
 Council for Scientific and
 Industrial Research,
 Australia, 2320
 Coupin, A., 1395
 Couturier, —, 1407
 Couturier, A., 1446
 Cox, C. E., 1602
 Cox, G. M., 2026
 Cox, L. G., 359e
 Crafts, A. S., 1960
 Crane, H. H., 1274
 Crane, J. C., 845, 846, 848,
 849
 Crane, M. B., 585
 Crang, A., 2035
 Crawford, C. L., 1605
 Crawford, D. M., 488

- Crocker, W., 136
 Cronshey, J. F. H., 2086
 Crook, E. M., 2043
 Crooks, D. M., 856, 857, 858
 Crosier, W., 1552
 Cross, F. B., 1521
 (Cross, W. E.), 565
 Croxall, H. E., 2252
 Cruess, W. V., 1155, 1677,
 1682, 2278, 2287
 C.S.I.R., Australia, 2320
 Cuenot, G., 723
 Cullinan, S. J., 623
 Culpepper, C. W., 521, 531,
 1527
 Cunin, G., 1359
 Curl, A. L., 2276
 Curtis, J. T., 2071, 2072
 Cvetkova, E. N., 2298
 Cyprus Department of Agri-
 culture, 554, 2324

 Dahl, C. G., 1314b
 Daines, R. H., 731, 1368
 Dallas, W. K., 1004
 Dallimore, W., 1692
 Danielsson, B., 1862
 Dansk Gartnerforening,
 2325
 (Danvig, A. M.), Editor,
 2325
 Dark, S. O. S., 2262
 Darpoux, H., 1331, 1484
 Das, S., 626, 688
 Dastur, J. F., 2183
 Davey, A. E., 1830
 Davidson, J. R., 94
 Davidson, O. W., 663, 1738
 Davis, F. F., 200c
 Davis, F. L., 655a
 Davis, J. F., 958
 Davis, L. G., 1394
 Davis, M. B., 373, 701, 1670
 Davison, J. R., 88
 Dawson, R. F., 2152c
 De, S. S., 1186, 2266
 Dean, F. P., 193
 Decker, P., 1843
 Degman, E. S., 99a, 1278
 Delaware Agricultural
 Experiment Station,
 1707
 Delf, E. M., 1253
 Delhayre, R., 1904, 1906
 Demaree, J. B., 761, 1888,
 1889
 Demidenko, T. T., 860, 2061
 Demolun, A., 1333
 Denham, H., 666
 Dent, K. W., 1771k
 Department of Industrial
 and Scientific Research,
 N. Zealand, 2331
 Dermen, H., 108
 Desalbres, J., 1452e
 Deshusses, J., 802
 Deshusses, L., 802
 DeTurk, E. E., 625
 Dewez, W. J., 964b
 Dexter, S. T., 254
 Dias, V., 465
 Dias Martins, J. E., 1026
 Dicker, G. H. L., 1399, 1924,
 1925

 Dickinson, D., 2008, 2284,
 2285
 Dickson, R. C., 2040, 2186
 Diehl, H. C., 1664
 Dierick, G. F. E. M., 190, 814
 van Dijk, P. J. S., 982
 Dijkstra, S. P., 2047, 2062,
 2064, 2103
 Dinsa, S. H. S., 1002
 Dirks, C. O., 780
 Ditman, L. P., 2148, 2149
 Division of Bacteriology
 and Dairy Research
 Science Service, Canada,
 1655
 Division of Chemistry,
 Science Service, Canada,
 1655
 Division of Horticulture,
 Central Experiment
 Farm, Ottawa, 1655,
 1671
 Division of Horticulture,
 Pretoria, 2015
 Division of Plant Industry
 N.S.W., 924
 Dix, W., 655b
 Dmitriev, L. E., 1774
 Dobrunov, L. G., 2069
 Dodds, K. S., 1641, 1646a,
 2242b
 Doeksen, J., 161
 Doery, A. C., 824
 Dollins, W. A., 440
 Domingo, W. E., 856, 857,
 858
 Dominica Department of
 Agriculture, 1230b
 Doncaster, J. P., 2088
 Donnelly, M., 621
 Donnelly, W., 34c
 Doolittle, S. P., 1046
 Doran, W. L., 300, 2127
 Van Doren, A., 92
 Doucette, C. F., 1564
 Doyer, L. C., 830
 Driggers, B. F., 1941
 Drobkov, A. A., 274
 Drosdoff, M., 2189
 Drouineau, G., 1450
 Drouin, I. F., 1290
 D.S.I.R., New Zealand, 2331
 Dubois, C. W., 1150, 1666
 Dufour, A., 675
 Dufrenoy, J., 655f
 Dulac, J., 1323
 Dumont, H., 1272
 Duncan, R. E., 2072
 Dunegan, J. C., 765
 Dunin-Barkowski, V. H., 844
 Dunn, R., 210
 Duprez, J., 38
 Duprez, R., 1951
 Durán M., L., 1964, 1965,
 1966, 2132
 Dustan, A. G., 1558b
 Dylis, N. V., 2020

 Eardley, C. M., 866
 Earl, L., 840
 Earley, E. B., 954
 East Malling Research Sta-
 tion, 2326

 Ebbinge Wubben, G. J. H.,
 1462
 Ebeling, W., 1929, 2184, 2185
 Eckert, J. E., 822c
 Edelstein, V. I., 828
 Eden, T., 1771b
 Edgerton, L. J., 123, 663
 Edgington, G., 18
 Edman, M., 34i
 Edwards, E. E., 1266d
 Edwards, K. B., 639
 Efferson, J. N., 2197a
 Efimenko, O. M., 1637
 Efimov, V. A., 2298
 Eggers, V., 2152d
 Eggert, R., 1261
 Eide, P. M., 1404
 Eidt, C. C., 526, 1176
 Einset, J., 99b
 Éire Ministry of Agriculture,
 2337b
 Ekbrant, L., 1453
 Ekman, P., 1876
 Eliasson, S., 2144
 Ellenby, C., 964c
 Ellenwood, C. W., 1314c
 Ellison, J. W., 1314d
 Emmert, E. M., 34d
 Engard, C. J., 126a
 English, H., 71, 99c, 1424
 Enkard, V., 2029
 Eny, D. M., 2279, 2280
 Erickson, L. C., 2073, 2116
 Erikson, E., 1524
 Ermolaev, N., 331
 Esselen, W. B., 2277
 Esselen, W. B., Jr., 537, 1665
 Estienne, V., 1907
 Evans, L. J. C., 443
 Evers, C. F., 1663
 Eyer, J. R., 782
 van den Eynde, E., 1865a
 Eyster, H. C., 655c
 Ezell, B. D., 1598

 Fabre, J. H., 1689c
 (Faes, H.), 561
 Fäh, E., 1338
 Fahey, J. E., 1408, 1937
 Fankuchen, I., 1452f
 Farming, 1708
 Farrar, J. L., 34e, 655e
 Fassett, N. C., 703
 Fässler, J., 1833
 Faulkner, R. P., 1197, 2028
 Fawcett, G. L., 1592
 Fawcett, H. S., 1589, 2180
 Federer, W. T., 1541
 Felber, I. M., 192
 Felton, M. W., 1520
 Fennah, R. G., 1069
 Fennell, J., 1645
 Fennell, J. L., 1140, 2241
 Fenske, L. J., 2197a
 Fermentation Industries,
 2337c
 Fermi, L. M., 1625
 Fernandez, M., 2248
 Fernandes, C. T., 1864
 Fernandez Gianotti, A. A.,
 1597
 Ferrand, —, 1634
 Ferrand, M., 2228
 Ferreira, J. J., 1597

 Fey, M., 510
 Fey, W., 52, 76
 Fieger, E. A., 1666
 Field, R. M., 34a
 Fife, L. C., 2087
 Filatov, F. I., 1733
 Filippov, D. J., 880
 Filov, A., 326
 Finch, A. H., 212, 214, 1,
 1016
 Finnemore, H., 2057
 Finney, D. J., 1771c,
 2152g
 Fippin, E. O., 655d
 Fischer, H., 1649
 Fish, S., 726
 Fisher, E. H., 951
 Fitzpatrick, J. T., 1310
 Fjäderhane, A., 1845b
 Flanders, S. E., 65
 Fleckinger, J., 1826
 Fleming, W. E., 964d
 Floor, J., 1276, 1802, 18
 Florida Agricultural Ex-
 periment Station, 2327
 Flory, S. J., 1282
 Flynn, L. M., 343
 Fontaine, T. D., 2197b
 Food Group, Society
 Chemical Industry,
 1
 Ford, C. E., 1117
 Foreman, F. G., 1022
 Forsell, M. J., 1903
 Foster, A. A., 2016
 Foster, R. E., 1518, 2124
 Frampton, V. L., 1352
 François, I., 1838
 France, Ministère des
 onies, 1216
 Francolini, F., 1294
 Françot, —, 1389
 Du Franc, B., 869
 Fransén, J. J., 818, 1435
 Fraps, G. S., 1431
 Frazier, N. W., 1894
 Frazier, W. A., 1141
 Freitag, J. H., 1894
 French, A. P., 1277
 Frey, W., 259
 Frézal, P., 1452g
 Frezzi, M. J., 426
 Friedrichs, W., 788
 Friend, A. H., 2133
 Frison, E., 1058
 Fritzsche, R., 685, 1299
 Fromm, F., 1070
 Frost, S. W., 2010d
 Fruit and Vegetable Pro-
 ducts Research Com-
 mittee, Department
 Agriculture, Canada,
 1655
 Fullmer, F. S., 1613a
 Fulton, R. A., 1041
 Funke, H., 12
 Furr, J. R., 414, 2234

 G., M., 1125
 Gadd, C. H., 2209
 Gaessler, W. G., 169
 Gallotti, M., 1075
 Gandara, J. A., 2242d
 Garman, P., 791
 (Garner, R. J.), 1801

INDEX OF NAMES

- arner, R. J., 1804, 1807,
 1819, 1820, 1821, 1822
 arner, R. L., 2152i
 arrett, S. D., 731
 arrison, C. S., 964e
 aškova, O., 649
 ates, D. B., 916
 audineau, M., 1384, 1385,
 1387
 avaudan, P., 1258
 avrilova, Z. A., 322
 ayford, G. W., 686
 eering, J., 1322
 ehlsen, C. A., 1618
 eger-Vifian, A., 685
 emanova, N. V., 1693
 eorgia Experiment Station,
 1709
 rassimova, E. N., 877
 rhardt, F., 71, 99c, 1424,
 1650, 1832
 rritsen, J. D., 41, 784,
 1782
 rsons, L., 753
 rslin, H., 822d
 ruten, —, 50
 erson, L., 759
 rose, T. P., 1188
 rosh, S. K., 1108
 rosh, S. M., 822i
 rson, G. W., 2168
 lbert, E. J., 1309
 lbert, S. G., 2189
 lbert, S. M., 461, 1085
 lgut, C. J., 294
 ljarvski, I. P., 337
 a Gillern, C., 964f
 lham, E. M., 1988
 lliwer, K., 1968
 lmore, J. U., 2152e
 nsburg, J. M., 2010e
 aholm, J., 1039
 asgow, H., 2147
 enn, E. M., 1859, 1860
 ble, G. J., 2010f
 dard, —, 1469, 1487
 dard, M. M., 822e
 dfrey, G. H., 425
 a Godtsenhoven, E., 260
 ia, G., 2081
 ld Coast Department of
 Agriculture, 1217
 lding, E. W., 633
 ldstein, A., 2010b
 nggrijp, J., 813
 oday, T., 900
 odspeed, T. H., 852
 rbatov, P. P., 2066
 rham, P. R., 2067
 sta, J., 538c
 ttlieb, D., 1533
 uld, N. K., 2153
 Goupils, P., 1433
 urley, J. H., 84, 683, 690
 der Graaf, A. J., 979,
 985, 986
 ace, N. H., 5, 34e, 655e
 aham, J. J. T., 794
 anlund, R., 1780
 anovsky, A. A., 230
 ayes, A. H., 1324
 ay, A., 1566
 ayson, J. M., 2195
 ayes, T., 1997
 Grebinskii, S. O., 1499
 Greene, R. D., 1770
 Greenfield, S. S., 655j
 Greenway, P. J., 1106
 Gregory, L. E., 445
 Gregory, P. H., 2168
 Gries, G. A., 160,
 Griffiths, A. E., 212
 Grigsby, B. H., 1555, 2025
 Grimbail, P. C., 964m
 Grison, P., 1400, 1411, 1473
 Griswold, H. B., 1607
 Grootenhuis, J. A., 654
 Grosjean, J., 152, 757
 Groszmann, H. M., 1137
 Groves, A. B., 173, 1430
 Grubb, N. H., 1848
 Grunberg, P., 2232
 Guadagnin, L., 340, 1639
 Guba, E. F., 1569
 Gubin, A. F., 837
 Guedon, A., 1450
 Guéron, P., 1528, 2113
 Guercin, J., 1674
 Guerreiro, M. G., 1864
 Guignard, P., 1546
 Guiljarov, M. S., 890
 Guillaume, —, 1485
 Guillaume, A., 1689d, 2052
 Guillaumein, A., 1419
 Guillemet, P., 1271
 Gum, O. B., 283
 Gunaratnam, S. C., 2233
 (Guntton, H. C.), 655h
 Gupta, J. C. S., 1619
 Gurewitsch, A. A., 1763
 Gusev, P. P., 124
 Gustafson, F. G., 610
 Gustafsson, Y., 1743
 Gutsche, A. E., 745
 H., H., 1299
 Haagen-Smit, A. J., 964g
 Haas, A. R. C., 23, 128, 419,
 420, 1011, 1613b
 Haber, E. S., 432
 Hackman, R. H., 2001
 Hackney, F. M. V., 2263
 Hacquart, A., 1114, 2217
 Haddock, M. J., 2099
 Hadorin, C., 189, 235, 314,
 344, 347, 369, 835
 Hahnel, E., 1972
 Halcrow, M., 1082, 1091
 Halifman, I. A., 647
 Hall, E. G., 506, 530, 2249
 Hallemans, A., 1905
 Hallemans, L. A., 988
 Haller, M. H., 505
 Halma, F. F., 1588
 Hambleton, E. J., 1062,
 1063, 1632
 Hammond, G. H., 1397
 Hamner, C. L., 200j, 1000,
 1958, 1959
 Hamner, K. C., 19, 359a
 Hanck, A., 1313
 Hanf, M., 822f
 Hanger, F., 377
 Hanna, W. J., 1501
 Hansberry, R., 1448
 Hansen, C. J., 200a
 Hansen, E., 215, 287, 499
 Hansen, H. N., 1575, 2123
 Hansen, K., 792
 Hardy, E., 2188, 2197c
 Hardy, F., 443
 Hare, W. W., 284
 Hargrave, P. D., 1182
 Haring, R. C., 1994
 Harley, C. P., 86
 Harman, F. N., 119
 Harman, S. W., 1938
 Harmer, P. M., 30
 Harper, H. J., 1334, 1521
 Harper, R. E., 1112
 Harper, R. S., 1020
 Harris, H. C., 1053, 2193
 Harris, R. V., 1557, 1890
 Harry, J. B., 1985
 Harter, L. L., 1046
 Hartsema, A. M., 295, 296,
 390, 391, 393, 394, 395
 Hartsuiker, K., 172
 Haselar, R. E., 1265
 Haseman, L., 2101, 2102
 Hassid, W. Z., 964h
 Hatch, M. B., 197, 528
 Hatcher, E. S. J., 1821
 Hatt, H. H., 2054
 Hauck, C. W., 1558c
 Havas, L. J., 1241
 Havis, L., 1314c, 1865b
 Hawaii Agricultural Experi-
 ment Station, 1218
 Hawker, L. E., 2166
 Hawkins, J. H., 2135
 Hawley, R. C., 2299
 Hayaux du Tilly, J., 1325
 Hayward, F. W., 1679, 1680,
 1681
 Heath, O. V. S., 2084
 Hedges, F., 2136
 Heiberg, B. C., 1510
 Heim, R., 1365, 2214
 Heim de Balsac, H., 1502
 Heintze, S. G., 2146
 van der Helm, G. W., 903
 Helson, G. A. H., 1996, 1997
 Hendrickson, A. H., 87
 Hendrickx, F. L., 454, 468,
 493a
 Hendrix, J. W., 1141
 Henin, S., 1263
 Henkes, H. J. M., 56, 1805
 Henning, L. J., 2033
 Herbert, D. A., 1568
 Heuberger, J. W., 1533, 2017
 Heusel, M., 1844
 Hewey, G. E. R., 2094
 Hewitt, E. J., 1766, 1873
 Hewitt, W. B., 116, 744, 1362
 Hey, G. L., 773
 Hibbard, A. D., 343, 1461
 Hickman, C. J., 897, 1532
 van Hiele, T., 494, 509, 1151,
 1288, 1667, 1668, 2244,
 2247
 Higgins, V. (Editor), 2300
 Hilbert, G. E., 2152f
 Hildebrand, A. A., 355, 1540
 Hildebrand, E. M., 1954
 Hill, A. G. G., 1126
 Hill, R. E., 1558d
 Hills, K. L., 268, 269, 2055,
 2056
 Hillsborough Agricultural
 Research Institute, 1219
 Hilton, R. J., 674
 Hinchcliffe, E., 698
 Hirst, F., 2286
 Hoagland, D. R., 27
 Hoare, A. H., 1784, 1846,
 2301
 Hobbis, E. W., 2012
 Hobblyn, T. N., 470, 1785,
 1837
 Hochapfel, H., 155
 Hockey, J. F., 795
 Hodgson, R. W., 421, 1608
 Hoffman, A. M., 1158
 Hoffman, M. B., 92
 Hoffmann, C. H., 872
 von Hofsten, C. G., 822g
 Hogg, N. J., 1182
 Holden, M., 2010a
 van Holder, J., 9, 365, 376
 Holdsworth, M., 2084
 Hollar, V. E., 432
 Holley, W. D., 408b
 Holmberg, C., 2039
 Holt, M. E., 959
 Holubinsky, I. N., 599
 Honig, P., 541
 Hooker, W. J., 1973
 Hoon, R. C., 619
 Hoover, A. A., 218
 (Hope, G. W.), 1655
 Hopkins, J. C. F., 485
 Hoppe, P. E., 404
 van Horn, C. W., 214, 1016
 Horsfall, J. G., 542, 2010g,
 2010h
 Hough, W. S., 1436, 1918,
 1919
 Houseman, E. E., 1541
 ten Houten, J. G., 785
 Howard, F. L., 346
 Howard, H. W., 913
 Howard, W. L., 1694
 Howes, F. N., 1198
 Howlett, F. S., 1314c, 1744
 Hrcnari, C., 414
 Huchbelling, N., 940
 Huber, H., 113
 Hockett, H. C., 1554, 2097
 Hudson, P. S., 2302
 Huelin, F. E., 2281
 de la Huerta, A., 433
 Hulme, A. C., 2258, 2259
 Hülphers, A., 1797
 Humphries, E. C., 1096
 Hunter, A. S., 620, 873
 Hunter, G., 1160, 1192e
 Hunter, J. G., 2120
 Hunziker, A. T., 1245
 Hurt, E. F., 962, 1695
 Hus, P., 1363
 Hutchings, B. L., 1663
 Hutchins, M. C., 531, 1527
 Hutchinson, G. E., 34f
 Hutson, R., 2005
 Hutton, E. M., 2112
 Huyskes, J. A., 939
 Huysmans, C. P., 774
 Hylmö, B., 1519, 1548
 Ignatius, J. G. W., 574
 Igolen, H., 1683
 Iijin, M. M., 587
 Illingworth, F., 449
 Iltis, H., 368

- Imhofe, B., 200j
 Imperial Council of Agricultural Research, India, 1220
 Indian Tea Association, 555, 1710
 I.N.E.A.C., 556
 Ingelström, E., 175
 Ingram, C., 1280, 2158, 2172a
 Institut des Fruits et Agrumes Coloniaux, 1711
 Instituut . . . Verwerking van Fruit en Groenten Wageningen, 557, 558, 559
 International University Press, 1195
 (Iowa Experiment Station), 1793
 Iowa Experiment Station, 2328
 Irani, R. J., 1490, 2049
 Irving, G. W., Jr., 2197b
 Isaac, I., 2127b
 Isbell, C. L., 304
 Isely, D., 765, 1993
 van Iterson, G., Jr., 34g
 Ivanoff, S. S., 918
 Ivanov, H. N. (Editor), 827
 Ivanov, N. N. (Editor), 2303, 2304
 Ivanova, T. C., 879
 Izmailov, N. A., 1169
 Izquierdo Tamayo, A., 255
 Izrail'skii, V. P., 150

 Jack, H. A., 34h
 Jacks, H., 834
 Jacob, H. E., 116
 Jacob, K. D., 637
 Jacobi, E. F., 967
 Jacobs, S. A., 2010b
 Jacobson, G., 2144
 Jacobson, L., 67
 Jacoby, M., 453
 Jacquín, P., 1698h
 Jacynina, K. N., 289
 Jain, N. L., 1175
 Jaivenois, A., 1835
 Jakimov, P. A., 275, 1637
 Jakuševskii, E. S., 1467
 Jakuškin, I. V., 207
 Jamaica Department of Agriculture, 1134, 1712
 Jamalainen, E. A., 200b
 James, D., 2035
 Jamineva, S., 271
 Jang, C. S., 1493
 Janjua, N. A., 724
 (Janson, J. T.), 1655
 Jardine, F. A. L., 1335
 Jarussov, S. S., 627
 Jarvis, H., 291, 1127
 Jayaweera, D. M. A., 2226
 Jeffers, W. F., 1602, 1753
 Jeffrey, E. C., 600
 Jenkins, A., 1903
 Jenkins, C. F. H., 158, 1391
 Jenny, H., 622
 Jenny, J., 315, 1299, 2010i
 Jensen, H., 1800
 Joffe, J., 1491

 Johansson, E., 34k, 61, 677, 1811
 John Innes Horticultural Institution, 1713
 Johns, B., 1161
 Johns, M. E., 1970
 Johnson, A. T., 383
 Johnson, D. A., 1734, 1735, 1736, 2080
 Johnson, E., 1612
 Johnson, F., 1379
 Johnson, J., 731
 Johnson, L. P. V., 851
 Johnson, W. A., 211
 Johnston, F. B., 1689e
 Johnstone, J. C., 1055b
 Jolivet, J. O., 284
 Jockheere, W., 117, 1950
 (Jones, A. H.), 1655
 Jones, H. A., 1511, 2007
 Jones, J. O., 2119
 Jones, J. S., 197
 Jones, M. A., 817, 2201, 2202
 Jones, R. C., 512, 2125, 2126
 Jones, W. W., 214, 1016
 Josć Pickel, D. B., 850
 Judkins, W. P., 85
 Jumelet, A., 930
 Junge, E., 667

 Kadam, B. S., 1144
 Kalašnikov, V. P., 865, 2058
 Kalmus, H., 822h
 Kalogereas, S., 1666
 Kaniskin, M. F., 253
 Kar, B. K., 2200
 Karr, E. E., 1688
 Karunairatnam, M. C., 218
 Kassanis, B., 822h, 2088
 Katinskaja, J. K., 710
 Kearns, H. G. H., 1405, 1974, 1975
 Kebby, R. G., 1010
 Kedrov-Zihman, O. K., 881
 Kedrova-Zihman, O. E., 881
 Keeble, Sir F., 2305
 Keener, P. D., 148
 Kehar, N. D., 1189
 Keitt, G. W., 154, 1367
 Kell, J., 40
 Kellar, H. A., 1233
 Kellera, B. A., 1199, 2306
 Kelley, O. J., 620, 873
 Kelner, A., 2070
 Kelsey, J. M., 1135
 Kelsheimer, E. G., 359f
 Kemp, H. K., 131, 716, 769, 822i
 Kentville Experimental Station, 1655
 Kesselring, H., 1299
 Kessler, H., 507, 508, 510, 511, 658, 1200, 2245
 Keswick, R. C., 212
 Khan, M. H., 1066
 Kićunov, N. I., 1573
 Kidd, F., 495, 496
 Kiely, T. B., 423
 Kienholz, J. R., 755
 Kiessner, M. E., 2260, 2264
 Kiesselbach, T. A., 261
 Kikuta, K., 1141
 Kilpatrick, D. T., 79
 Kincaid, G. C., 1060

 Kincaid, R. R., 731
 King, H., 2060
 King, H. W., 1878
 King, M. E., 1357
 Kinman, C. F., 91
 Kirschleger, M., 1301
 Kjar, N. A. M., 2198
 Kjellander, E., 359g
 Kjuž, P. O. (Editor), 2014
 Klechetov, A. N., 277
 Klinkenberg, C. H., 760
 Klotz, L. J., 424, 429, 441a, 1033, 1593
 Knight, A. T., 74
 Knight, F. P., 371
 Knight, P., 450
 Knjazatova, E. I., 887
 Kobel, F., 121, 195, 676, 1297, 1298
 Koblitsky, L., 2010c
 Koch, L. W., 355, 1540
 Kojalović, N. B., 275
 Kolesnik, I. D., 885
 Kologrivova, A. J., 613
 Koopman, C., 942
 van Koot, I., 1868
 van Koot, Y., 740, 920, 929, 930
 Körtling, A., 258, 359h
 Kostrov, N. I., 359i
 Kotila, J. E., 1123
 Koydl, S., 1789
 Kralin, P., 643
 Kramer, A., 2140, 2283
 Kramer, H. H., 964i
 Kramer, P. J., 591
 Krasnoselskaja, T. A., 598, 1693
 Kreier, G. K., 1449
 Kreutzer, W. A., 1535
 Krewson, C. F., 1492
 Krijthe, E., 2, 372, 616
 Krijthe, J., 614
 Krijthe, N., 392
 Krishna, S., 1188
 Krjukova, N. N., 597
 Kromdijk, G., 398
 Kronenberg, H. G., 102, 743, 778
 Krotkov, G., 270
 Kručina, Z. A., 644
 Kruft, F., 704
 Krug, C. A., 2212
 Krug, H. P., 1089
 Krüger, E., 262
 Krupenikov, I. A., 1286
 Krut, W., 48, 969, 970, 971, 972, 973, 974, 975, 976, 977
 Kuenen, D. J., 766, 1329, 1922, 1928
 Kuhn, W., 1336
 Kuhnholz-Lordat, 1346
 Kuhnholz-Lordat, M., 1390
 Kulash, W. M., 2000
 Kunkel, L. O., 145
 Kupčev, A. I., 875
 Kurer, J., 1299
 Kurgatnikov, M. W., 1549
 Kursanov, A. L., 597
 Kurtz, G., 625
 Kvithamar Research Station, 1221, 1222, 1223
 Kwoh-Hsien, H., 504

 Lachman, W. H., 236
 LaDue, J. P., 2186
 Lagard, P., 1320
 Laine, T., 1465
 Laing, F., 1098
 Lal, G., 1175
 Lamb, J., 2210
 Lambers, D. H. Ris, 772
 Lamm, R., 34k, 203, 145
 Lammerts, W. E., 1613c
 Lamprecht, H., 1458
 Landes, M. L., 2067
 Langdon, R. F., 1568
 "De Lange Ossekampen 560, 570a
 Langford, G. S., 2010j
 Langford, M. H., 2230
 Langham, D. G., 2219, 2221, 2222, 2223, 2225
 Lantz, E. M., 2048
 Lapin, L. N., 1168
 Larsen, E. L., 1865c
 Lathrop, F. H., 780
 Latif, M. A., 1067
 Latta, R., 1564
 Laurance, B. M., 1611
 Lausanne, Station Fédérale d'Essais, 561, 573
 Lavaur, J., 1415
 Leach, G. H., 440
 Leach, R., 2236
 Leak, F., 114
 LeBeau, F. J., 907, 151565
 Lecrenier, A., 1827, 1979
 Ledin, G., 1703
 Leeftmans, S., 804, 808, 141441, 2002, 2022
 Leek, Proeftuin, 1230c
 Lees, H., 1771d
 Lefèvre, P. C., 477
 Lehman, S. G., 1543
 Lehr, J. J., 1759
 van der Lek, H. A. A., 2, 372, 614, 615, 61242
 Lenfant, —, 1407
 Lenglen, —, 1767
 Lepesme, P., 1434, 1628
 Lepigre, A., 771
 Leroux, D., 1502
 Leroy, R., 1266f
 Leslie, R. J., 1156a
 Leupen, F. J., 391
 Levadoux, L., 1361, 151691, 1893
 Lever, R. J. A. W., 1061
 Levin, C., 2152e
 Levitin, N., 871
 Levitskaja, K. A., 2298
 Lewis, D., 1812
 Lewis, F. H., 1428
 Lewis, H. C., 1044
 Lewis, R. W., 1969
 Lewis, V. M., 327
 Lewis, W. H., 822j
 Leyvraz, M., 719
 Liberman, J., 1696
 Libes, R., 37
 Lihnell, D., 983, 2164
 Limasset, P., 1469
 Lindblom, A., 1932
 Lindfors, T., 162, 1327,

INDEX OF NAMES

- indgren, D. L., 1040,
2010k, 2186, 2254
indner, R. C., 86
indquest, A. W., 2007
indsay, E. J., 735
ineweaver, H., 2265
inkola, H., 1758
isavenko, M. A., 2307
isova, A. V., 243
itvjakov, P. P., 1343
itwiler, E. M., 528
itzenberger, S. C., 790,
822k, 964n
ivens, J., 2242c
oyd, N. C., 232
jcke, W. F., 1576
jhnis, M. P., 129
ong Ashton Research Sta-
tion, 2329
po, S.-W., 1742, 2090
pomis, H. F., 34b, 1131
pos, C. A., 2209
posjes, F. E., 816
ott, R. V., 69, 70, 72
ott, T. B., 144
oughnane, J. B., 841
oustalot, A. J., 437, 722
ouveaux, J., 1445
ouw, A. J., 1909
oza, G., 1768
ucas, E. H., 1969
uckan, J., 708
uckwill, L. C., 2118
ugeon, A., 202
undblad, K., 1874
unde, R. N., 833
undegårdh, H., 1244
uthi, E., 1303
uthi, H., 523, 524; 2295a
ytten, L., 296, 390, 393,
395, 397
ova, P., 957
yga, A. L., 989
on, A. V., 1310, 1842
senko, T. A., 1199, 2306
senko, T. D., 883
., H. A., 125, 1402
., W. W., 1090
aan, W. J., 952, 1512, 2110
acArthur, M., 526, 1149,
1177, 1689e
acArthur, M.), 1655
acCallan, S. E. A. M.,
2010p
acaulay Institute, 1224
acCarthy, D. F., 933
acClellan, W. D., 992, 2156
acClure, F. A., 457
acCubbin, W. A., 729
acDermott, J. J., 863
acDonald, G., 807
acDonald, J. E., 1431
acDougal, D. T., 655f
acEdo, A., 434, 487
acEck, J., 2172c
acEffe, J. W. S., 1100
acGarr, R. L., 2087
acGeorge, W. T., 1015,
1771e
acGillivray, K. D., 89, 90
acGowan, J. C., 1429
acHacek, J. E., 247
acHargue, J. S., 25
MacIntire, W. H., 1740
McIntosh, A. H., 2010l
McKay, R., 928
McKenzie, H. A., 534, 538d
McKinney, H. H., 731
McLaughlin, J. H., 1460
MacMasters, M. M., 2152f
McMillan, T. J., 1517
Mácola, T., 426
MacVeigh, I., 68
McWorter, O. T., 137
Madden, A. H., 2007
Madras Department of Agri-
culture, 2330
Madueño Box, M., 1489
Maguire, E. G., 1129
Maki, T. E., 1771f, 1771g
Maksimov, N. A., 641
Malan, A. H., 720, 1858
Malan, P. F., 2178
Malcolm, J. L., 1875
Maleev, E. E., 2309
Malik, R. P., 964j
Mallaby, H., 1019
Malot, J. C., 746
Manalo, G. D., 2005, 2006
Mancacci, S. A., 2282
Mangat, S. S., 1192b
Mann, A. J., 1291
Manns, T. F., 2017
Manske, R. H. F., 868
Manton, I., 913
Marani, M., 1939, 2081
Marchionatto, J. B., 2182
Marcus, O., 149
Marie, A., 1434
Mariman, G., 1319
Marion, L., 868
Mariscal, R., 1523, 2113
Markham, R., 1466, 2079
Markov, N. V., 1799
Markova, L. G., 2075
van Marle, G. S., 166, 362,
399, 400, 996
Marlowe, R. H., 917
Marques de Almeida, C. R.,
1295, 1296, 1863
Marsh, R. W., 1330, 1974,
2008
Marshall, G. A. K., 1068
Marshall, H., 1771f, 1771g
Marshall, P. B., 493b
Marsolat, R., 1305, 1344
Martensen, E., 244
Marth, P. C., 97, 200c, 1749,
1831, 1961
Martin, H., 776, 1974, 1982
Martin, J. P., 1595
Martin, L. R. E., 1786, 1809
Martin, W. E., 2242d
Martínez Crovetto, R., 245,
1955
Martinoli, L., 786, 1283
Massachusetts Agricultural
Experiment Station,
1714
Massee, A. M., 543, 1912,
1921
Mastenbroek, C., 941
Mathieu-Reverdy, G.,
1326b, 1326c
Mathoth, H. J., 509, 518, 1685
Matiesen, D., 2273
Matthews, J. R., 1771h
Maume, L., 1323
Mauri, N., 671
Mauritius Department of
Agriculture, 1225
Mauritius Sugarcane
Research Station, 1230d
Mauro, J., 1386
Maximov, N. A., 389, 1687
Mayadas, P., 1045
Mayo, J. K., 1143
Meadly, G. R. W., 1418
Medvedev, P. F., 281, 1496,
1497
Meeuse, A. D. J., 34g
Megalov, V., 341
Megrabjan, A. A., 595, 601
Mehlich, A., 2192
Mehlquist, G. A. L., 408c
Meier, K., 17, 110, 964k
(Meier, K.), 568
van der K. Meijburg, F. L.,
1313
Meijers, P. G., 960
Melin, E., 2010m
Meljnik, S. A., 1856
De Mello, A. T., 462
Mello, P. S., 466, 1094
Melville, A. R., 1146b
Mérmery, R., 1446
Mendel, K., 2175
Mendes, A. J. T., 1077, 1078
Mendes, C. T., 463
Mendes, P. T., 435
Mendes Da Costa e Sousa,
L. de O., 111
Menzel, R., 163, 770
Merdian, C. B., 469
Meredith, C. H., 1642
Merry, D. M., 829
Merzhanian, A. S., 2308
(Mes, M. G.), 1582
Metlickii, Z. A., 2309
Meurman, O., 75, 99d,
1314e, 1781, 1796
Meyer, A., 659, 1269, 1337
Meyer, B. S., 359c, 2068
Meyer, H., 2261
Meyer, K., 1972
Michel, R., 1266e
Michelbacher, A. E., 783
Michigan State College, 968
Mićurin Fruit Research
Institute, 544
Middleton, J. T., 429, 430
Milbrath, J. A., 142
Miles, H. W., 2021, 2152g
Miles, M., 2021
Miller, E. V., 2250
Miller, H. A., 1001a
Miller, J. J., 321, 355
Miller, L. J., 486
Miller, L. W., 936
Miller, P. W., 800
Millington, A. J., 2042
Mills, W. D., 1354
Mimeur, J. M., 1249
Minbaev, K. M., 876
Miner, F. D., 1993
Ministère de la France
d'Outre-Mer, 1729c
Ministry of Agriculture,
London, 963, 1783,
1801, 1824, 1962, 2077,
2091, 2096
Minkevič, I. A. (Editor),
2311
Mitchell, H. H., 34j
Mitchell, J. W., 200c, 1748,
1749, 1961
Mitchell, R. L., 34j
Mitra, P., 1128
Moberg, H. A., 1300
Modlibowska, I., 1339
Mohammad, A., 1482
Moncure, R. C., 1056
Monseise, S. P., 1771i
Montaldo Bustos, A., 2036
(Montgomery, H. B. S.),
1801
Moon, H. H., 91, 97, 98
Moore, D. C., 1605
Moore, E. L., 1172
Moore, J. C., 640
Moore, J. D., 154, 1367
Moore, L. W., 1302
Moore, M. H., 156, 1372,
1427, 1895
Moore, P., 1591
Moore, T., 2295d
Moore, W. C., 1348, 2019
Moore, W. D., 934
Moreau, L., 1383
Morehin, M. G., 886
Moreira, S., 2174
Moretтини, A., 1284
Morgan, C. N., 707
Morris, H. E., 711, 822k
Morris, H. J., 2265
Morrison, H. E., 833, 949
Morwood, R. B., 1054
Mosk, S. A., 1558e
Mostovoj, K., 1481
Mote, D. C., 833, 949
Mottern, H. H., 1688
Moulton, J. E., 1958
van den Muijzenberg, E. W.
B., 107, 221, 635
Mujica R., F., 1910
Mukerji, B., 1108, 2059
Mulder, A., 2063
Mulder, D., 199, 737, 1371,
1374
Mulder, E. G., 200h
Munger, H. M., 359e
Munro, M. C. D., 1577
Munson, S. C., 812
Murneek, A. E., 1840
Murray, M. A., 1746, 1771j
Murray, W. G., 519, 520,
527
Murri, I., 1165
Musahib-ud-Din, 1183
Musket, A. E., 250
Mustafa, A. M., 724, 1658
Mutinelli, A., 821
Myers, L. F., 1587
Mynbaev, K., 1500
Naghski, J., 1492
Nanayakkara, K. D. S. S.,
2207
National Institute of Agri-
cultural Botany, Cam-
bridge, 570b
National Institute of Agri-
cultural Engineering,
Askham Bryan, 1226

- National Research Council of Canada, 551
 Natividade, J. V., 1817
 Nauta, S., 2257
 Navashin, M. S., 870, 877
 Neary, M. E., 795
 Nebraska Agricultural Experiment Station, 1230e, 1230f, 1715
 Nečaeva, N. T., 1488
 (Neergaard, P.), 2333
 Neergaard, P., 563, 1260, 1560, 1697, 1995
 Neiman, G., 280
 Neifstadt, M. I., 208
 Nelson, A., 2310
 Nelson, E. G., 254
 Nelson, H. D., 1041
 Neme, N. A., 1086
 Nepveu, P., 1392, 1920
 Neto, J. A., 465
 Newcombe, B., 1675
 Newcomer, E. J., 1439
 Newhall, A. G., 731
 New Jersey State Agricultural Experiment Station, 2337e
 New South Wales, Division of Plant Industry, 924
 (Newton, H. C. F.), 2082
 Newton, H. C. F., 2083
 Newton, L., 617
 New York State Horticultural Society, 1716
 New Zealand Department of Agriculture, 1227
 New Zealand, D.S.I.R., 2331
 Nicholas, D. J. D., 1252, 2038, 2119
 Nicholas, J. E., 1662
 Nickels, C. B., 1946, 1948
 Nicolas, G., 1580
 Niederhauser, J. S., 1480
 Niethammer, A., 200d
 Nigeria Agricultural Department, 2332
 Nijhoff, J. B., 394
 Nikiforov, S. P., 288
 Nikolskaia, M. N., 1416
 Nilsson, F., 34k, 1268, 1454, 1455, 1456, 1778
 Nilsson, L., 1896
 Nilsson, R., 26
 Nixon, R. W., 438, 439
 Njordam, D. (Jr.), 831
 North-Coombes, A., 1622, 1638
 Northern Ireland Agricultural Research Institute, Hillsborough, 2337d
 Northern Rhodesia Department of Agriculture, 1230g
 Notley, F. B., 1629
 Novikoff, V., 1478
 Nusbaum, C. J., 1047, 1601
 Nutile, G. E., 312
 Nyasaland Protectorate Department of Agriculture, 562
 Nyenhuis, E. M., 914
 Nyhlén, A., 1516
 Nylund, R. E., 217
 Nysterakis, F., 1360, 1923
 Oba, G. I., 359j
 Ogiefskaya, E. V., 322
 Ogilvie, L., 2104
 Olaliquaga Fauré, G., 2132, 2134
 Olden, E. J., 1795
 Oldham, C. H., 1698
 Olive, L. S., 354
 Oliver, R. W., 373, 1570
 Olofsson, K., 1557
 Omer-Cooper, J., 1039
 O'Neill, H., 1559
 O'Neill, T. H., 1156a
 O'Neill, W. J., 1432
 de Ong, E. R., 2009
 Oparin, A., 1171
 Oppenheimer, H. R., 1584, 2172d, 2176
 Orchard, H. H., 357
 Oriol i Anguera, A., 1262
 O'Rourke, F. L., 4
 van Orshaegan, A., 104, 105, 919
 Orton, E. C., 2291
 Osburn, M. R., 2240
 Osinga, L., 732
 Osservatori de Economia Agraria di Palermo e di Portici, 410
 Ossiannilsson, F., 200e, 2172e
 Osterwalder, A., 141
 Östlund, N., 62, 2172f
 Ostrom, C. E., 1771g
 De Bruyn Ouboter, M. P., 402, 405
 Ovalle V., C. A., 1116
 van Overbeek, J., 445
 Overcash, J. P., 359k
 Pagán, C., 2201, 2202
 Page, A. B. P., 801
 Paillot, A., 1412
 Palestine Department of Agriculture, 1717
 Palmgård, A., 1581a
 Palmer, D. H., 798, 1366, 1984
 Panova, E., 273
 Panse, T. B., 1104
 Pape, H., 408d
 Paradiš, J. R., 1865d
 Parbery, N. H., 413
 Parker, E. R., 424, 430, 622, 1611
 Parker, M. W., 297, 351, 1761, 2139
 Parkhomenko, M., 650
 Parks, R. Q., 359a
 Parris, G. K., 198, 1522
 Parrish, B. D., 1314f
 Parsons, T. H., 446
 Partridge, N. L., 138
 Pasfield, G., 233, 305
 Pathak, A. D., 619
 Pattje, D. J., 929
 Patton, R. L., 2010f
 Pavgi, M. S., 915
 Pavlinova, P. A., 358
 Pavlova, L. I., 1342
 Pavlova, M. A., 2298
 Pavlova, N. M., 702, 1316
 Pearce, S. C., 42, 1372
 Pearse, H. L., 93, 1828
 Pedersen, A., 282
 Pederson, C. S., 1679
 Peive, Y. V., 839
 Pelegri, G., 1055c
 Pelowski K., B., 2204
 Pennefather, R. R., 691, 1017, 1018, 1842
 Pennington, C., 1101
 Pennsylvania Agricultural Experiment Station, 1718
 Pennsylvania State Horticultural Association, 1719
 Penny, N. M., 1558g
 Pentzer, W. T., 1652
 Pepper, B. B., 349
 Percival, M. S., 1849
 Perkins, J. F., 2100
 Persson-Ferlenius, G. R., 1779, 1791
 Pervuhina, N. V., 276
 Pesel, L. F., 408e
 Pesola, V. A., 1558f
 Peterburgskii, A., 577
 Peterburgskii, A. V., 1255
 Peters, J. J., 2085
 Petherbridge, F. R., 892
 Petrov, 1235
 Petrušinin, K. V., 853
 Peyer, E., 146, 718, 1413, 1854, 2295b
 Peynaud, E., 2272
 Phaff, H. J., 1180
 Philipston, T., 22
 Phillips, A. M., 1949
 Phillips, W. R., 1647
 (Phillips, W. R.), 1655
 Philpot, F. J., 1970
 Pickett, A. D., 795
 Piedrahita, F., 1635
 Pienazek, S. A., 501, 502, 503
 (Pierce, M. E.), 1655
 Pierce, W. C., 1946, 1947
 Pieris, H. A., 491
 Piettre, M., 1673
 Pigulebskii, G., 514
 Piland, J. R., 1052
 Pillai, A. K. M., 1191
 Pilloni, S., 2231
 Pinto Cesar, H., 682
 Pirovano, A., 1257
 Pittendrigh, C. S., 1646a
 Plachy, E., 151
 van der Plank, J. E., 964i, 2152h
 Plant Pathologist, Tasmania, 891
 La Plante, A. A., 1942
 van de Plasseche, A. W., 2289
 (Platzer, F.), 410
 Plumb, G. H., 160
 De Poerck, R. A., 476
 Van der Pol, P. H., 752, 1370, 1375
 Pollacci, G., 1075
 Pollard, A., 2034, 2260, 2264
 Pollard, H. N., 1919
 Pollari, V. E., 519, 520, 527
 Pollock, A. V., 1970
 Polovenko, I. S., 884
 Pons, W. A. Jr., 2197b
 Poole, C. F., 964m
 Poos, F. W., 2194
 Popov, A. M., 239
 Popov, G. I., 889
 Popov, V. R., 1166
 Porte, W. S., 923
 Porter, R. H., 642, 1545
 Portères, R., 1080
 Posnette, A. F., 458, 471, 4
 Post, A. H., 790, 822k, 96
 Post, J. J., 33, 352, 353, 654, 1463
 Potapov, A., 717
 Potter, C., 1988, 2100
 Potter, J. M. S., 43, 734
 Pottorff, L., 1750, 1751
 Pound, G. S., 306, 906
 Powers, J. J., 1665
 Prentice, I. W., 1357, 1891
 Preobrazhenski, G. N., 205
 Preston, A. P., 1765, 1879
 Preston, D. A., 748
 Preston, I., 381, 388, 665
 Prévot, A., 847
 Priadilshchikova, T. D., 6
 Price, W. C., 1537, 212130
 Priest, R. L., 1007
 Prince, A. L., 1875
 Proebsting, E. L., 82
 "De Proefstuin" te Boerkoop, 1209, 1210
 Profft, J., 200f
 Prokofiev, A. A., 1496, 14
 Proskuriakov, N. I., 358
 Provan, J. L., 1009
 Pulvertaft, R. J. V., 1247
 Purvis, E. R., 1501
 Quanjer, H. M., 730
 Quarrell, C. P., 1699
 Queensland Acclimatisation Society, 1228
 Quinn, N. R., 678, 1055d
 Quiros, M. A., 1105
 R., H., 1818
 R., J., 3
 Rader, L. F., Jr., 637
 Rahman, K. A., 1067
 Rakitin, J. V., 389, 61248, 1687, 2253
 Rakshpal, R., 855
 Raleigh, G. J., 29, 2115
 Ramirez, J. A., 822o
 Ramírez, J. H., 1192c
 Ramsbottom, J., 1201
 Ramsey, G. B., 1510
 Randall, T. E., 964o
 Rands, R. D., 2229
 Rangaswami, S., 1636
 Rangel, J. F., 908
 Rangnekar, Y. B., 606, 1
 Rao, M. R. R., 1107
 Rao, R. R., 2010n
 Rao, S. D., 1181
 Raphael, T. D., 964p
 Raptopoulos, T., 1307
 Rasmussen, W. B., 949
 Ratera, E. L., 240
 Raucourt, M., 1425, 1447, 1470, 1471, 14
 Rautou, S., 1494
 Raw, A. R., 843
 Rawes, A. N., 2305
 Razumov, V. I., 1468

INDEX OF NAMES

- ad, I. W., 320
 abouillon, A., 1340
 abour, —, 1270
 abour, H., 45, 692, 693,
 1006, 1273
 abour, H.), 550
 ader, R., 1689f
 ace, P. C., 414, 417, 2234
 ad, G. M., 750
 id, W. D., 943
 ig Feliu, A., 1684
 inmuth, E., 237
 nac, J., 2269
 ntschler, H., 1689g,
 2295c
 pin, A. H., 319
 uckil, F., 1145
 verdatto, V. V., 266
 yes Cajals, I., 1620
 ynard, G. B., 934
 ynolds, D. S., 637
 iner, O., 201
 eiro, D. F., 2105
 eiro, O., 460
 hards, A. G., Jr., 822j
 hards, A. V., 480, 2173
 hards, M. C., 338, 512,
 2125, 2126
 hardson, B. T., 1230h
 iche, F. J. H., 2190
 hens, R. H., 2302
 hes, J. P. R., 1872
 hli, K., 1945
 hter, A. A., 598
 k, C. M., 9640, 2117
 ra, F. X., 1267
 tsema, I., 1317, 1847
 g, T., 1231, 1232
 cstuinbouwvoorlichtings-
 dienst, 1202
 er, A. J., 745
 er, M. E., 359j
 goet, A., 2217
 chkov, V. L., 655g
 her, P. O., 165
 ch, W. A., 1251, 1870
 rk, R. C., 1991
 bins, R. E., 797
 bins, W. R., 1737
 erts, O. C., 1277
 erts, R. H., 63, 1755
 ertson, F. W., 1148
 ertson, N., 1578
 in, F., 1951
 inson, G. G., 819
 inson, G. M., 2172c
 inson, R., 2172c
 inson, W. O., 18
 les, P. S., 1109
 ano, C., 411
 da, T. E., 904
 den, H. W.), 1179
 nikov, N. I., 325
 rigues, G., 1096
 riguez, M., 2225
 well, C. N., 269
 buck, A., 893
 cens, F., 378, 2169, 2171
 rs, E. W., 493b
 rs, W. S., 1307, 1841
 rbaugh, P. W., 1590
 J. T., 1700
 nd, G., 1883, 1902
 S., 2010o
- (Roll-Hansen, J.), 1222
 Rollins, R. C., 278, 964q,
 2074
 Rongieux, R., 1689b
 Roodenburg, J. W. M., 106,
 360, 361, 978, 997, 1579
 de Ropp, R. S., 1240, 1752
 Rose, D. I., 604
 Rosella, E., 1353, 1378, 1442,
 1908
 Rosenberg, G., 1936
 Ross, W. A., 1410, 1444
 Rossi, L., 1939, 2081
 Rossiskii, D. M., 265
 (Rothamsted, Ministry of
 Agriculture Bee Depart-
 ment), 1824
 Rousseau, P. M., 696, 1152,
 1185
 Roussel, —, 1388
 Le Roux, J. C., 2013
 le Roux, M. S., 720, 1882
 Rovesti, G., 1479
 Rowntree, L., 966
 Roy, D. N., 822i
 Royal Meteorological
 Society, 655h, 1720
 Rubčov, A. K., 1279
 Rudnickij, H. V. (Editor),
 1773
 Rue, J. L., 1356
 Ruest, C., 1627
 Ruschmann, G., 16, 251,
 655i
 Ruys, J. D., 981
 Rynasiewicz, J., 896
- S., F., 81
 S., J. M. L., 1877, 1977
 Sabet, Y. S., 1616
 (Saccas, A.), 1365
 Sain, S., 293
 Salje, S. E., 1776
 Salles, B., 1892
 Salmon, E. S., 257
 Saltmarsh, E. R., 1701
 Samčik, P. A., 1774
 Sanford, G. B., 731
 São Paulo, Secretary of
 Agriculture, 479
 Saphir, S. A., 330
 Sarapov, N. I., 864
 (Satchell, J. E.), 2082
 Satchell, J. E., 2083
 Saublens, L., 1836
 Saura, F., 2242a
 Sauvage, G., 1851
 Savur, G. R., 1192d
 Scala, —, 1940
 Scarborough, H., 517
 Ščerbakov, A. P., 1551
 Schad, C., 1369, 1382, 1546
 Schaer, E., 1825
 Schanderl, H., 200g
 Schlamowitz, M., 2152i
 Schlör, J., 1656
 Schneider, F., 167, 181, 183,
 191, 196, 348, 779, 822m
 Schneider, H., 143
 Schneider, M., 1452f
 Schobinger, E., 2274
 Schoene, W. J., 1403
 Schofield, J. L., 1059
- Schomer, H. A., 1831
 Schoofs, M., 1190
 Schrader, O. L., 350
 Schreiber, W. R., 1130
 Schroeder, C. A., 416, 1596
 Schuffelen, A. C., 1741
 Schultz, E. F., 483, 2181
 Schuster, C. E., 628, 800
 Schütz, F., 11, 314, 315, 511
 Schuurmans Stekhoven,
 J. H., Jr., 822n
 Schweizer, G., 964r
 Scofield, C. S., 32
 Scott, D. H., 359j
 (Scott, E. J.), 1582
 Scott, W. J., 529, 535
 Scully, N. J., 297, 2139
 Seabrook, W. P., 545
 Seegal, B. C., 2010a
 Seely, C. I., 1420
 Seffinga, J., 401, 2170
 Seljuto, M. I., 380
 Sell, H. M., 1969, 2189
 Sels, L., 103
 Semler, H., 1624
 Sen, B., 854
 Sen, N. K., 1619
 Šestakov, A. G., 1254
 Severin, H. H. P., 874
 Seychelles Department of
 Agriculture, 1721
 de Sèze, R., 1384, 1385
 Shah, R., 1594
 Sharp, C. C. T., 1120, 1121
 Shaw, H., 803, 1437, 1998
 Shaw, J. G., 1406
 (Shaw, M. H.), 2082
 Shaw, M. H., 2083
 Sherwin, H. S., 2141
 Shiftan, S. L., 2179
 Shilov, M. S., 329
 Shirley, H. L., 593
 Shive, J. W., 341
 Shorrock, R. W., 956
 Shrikhande, J. G., 1076
 Siaens, F., 1829, 1981
 Siddappa, G. S., 1658
 Sideris, C. P., 489, 490, 1138,
 2238, 2239
 Sidorin, M., 311
 Siegler, E. H., 1409
 Siemers, G. F., 2268
 Sierra, H. M., 1115
 Sierra Leone Department of
 Agriculture, 1722
 de Silva, C. A., 1119
 Simmonds, A., 668
 Simmonds, N. W., 2242b
 Simonneau, P., 1027
 Simon, —, 1383
 Simon, J., 1556
 Simon, L., 1414
 Sinclair, W. B., 1008, 2010k,
 2177, 2254, 2279, 2280
 Singer, J., 1452f
 Singh, K. K., 1025
 Singh, S., 1287
 Singh, S. A., 789
 Singh, S. H., 1183
 Sinnott, E. W., 318
 Sipčinskii, N. V., 584
 Sisakjan, N. M., 1167
 Šiskan, B. K., 579
 Šitt, P., 700a
- Šitt, P. C., 35
 Šitt, P. G., 673, 1880
 Siu, R., 964g
 Šivrina, A. N., 1529
 Skard, O., 1777
 Slate, G. L., 122
 Slater, C. S., 618
 Sleeth, B., 279
 Sloan, W. J. S., 339
 van Slogteren, E., 363, 386,
 402, 405, 1884
 van der Sman, A. M., 1579
 Smeets, B., 1289
 Smirnov, N. M., 2312
 Smit, J., 200h
 Smith, A. J., 427, 1038
 Smith, A. M., 655k
 Smith, C. F., 1944
 Smith, C. O., 1033
 Smith, C. T., 133
 Smith, E., 99c, 1650
 Smith, E. A., 359e
 Smith, E. L., 1770
 Smith, F. F., 1509
 Smith, F. G., 1973
 Smith, G., 1203
 Smith, H. R., 2283
 Smith, J. E., Jr., 2172g
 Smith, J. H., 179, 810
 Smith, K. M., 546, 1466,
 2079
 Smock, R. M., 1648
 Smolák, J., 739
 Smoyer, K. M., 1588
 Šmuk, A. A., 648, 991
 Snapp, O. I., 1914, 1930,
 1943
 Snee, J., 947
 Snell, R. S., 680
 Snyder, A. J., 605
 Snyder, E., 119
 Snyder, J. C., 714, 1857
 Snyder, W. C., 2123, 2137
 Sobleleva, V. P., 228
 Söding, H., 12
 Soenen, A., 1907
 Sokolov, A. V., 646
 Sokolov, M. M., 36
 Sokolova, A. M., 285
 Solovej, F. M., 2066
 Somers, I. I., 1659
 Sommer, A. L., 34m
 Sonesson, N., 1306
 Sørensen, F., 1193
 Sosnovce, A., 280
 Southwick, F. W., 497, 498,
 500, 1648
 Southwick, L., 133, 1277
 Southwick, R. W., 418
 Souty, J., 576
 Spafford, W. J., 572
 Sparrow, F. K., 2152j
 Speirs, M., 1600
 Spiegelberg, C. H., 536
 Spielman, H. W., 1103
 Spinks, G. T., 1806
 Spoerl, E., 745
 Spoon, W., 815, 816, 842
 Spoor, P. A., 1373
 Spreng, H., 1304
 Sprenger, A. M., 59
 Sproston, T., Jr., 298, 300
 Sreenivasan, A., 1104, 1192d
 Sreenivasaya, M., 1107

INDEX OF NAMES

- Šreiber, L. L., 2050
 Staehelin, M., 316
 Stahel, M., 171, 1899, 1987
 Stakman, E. C., 1349
 Stammers, F. M. G., 1438
 Stampa, G., 1660
 Staniland, L. N., 1731
 Stapp, C., 147, 2001
 Stark, A. L., 687
 Starr, D. F., 188, 452, 8220, 1406, 2255
 Steele, H. R., 1160
 van Steen, J., 367, 980
 Steinberg, A., 1972
 Steinberg, R. A., 21
 Steiner, G., 832
 Steiner, L. F., 1408, 1937
 Steinhaus, E. A., 1963
 Stellatella, S., 680
 Stellwaag, F., 185
 Stephens, E., 1230i
 Stephenson, R. E., 628
 Stern, F. C., 2165
 Stevenson, E. C., 2051
 Stewart, D. F., 535
 Stewart, E. H., 624
 Stewart, G. W., 2031
 Stiles, W., 590, 1771k, 2313
 Stoddard, E. M., 160
 Stoffels, E. H. J., 1113
 Stofmeel, W. J., 994
 Stofmeel, W. S., 993
 Stoutemyer, V. T., 4
 Strachan, C. C., 1162
 (Strachan, C. C.), 1655
 Straib, W., 248
 Straughan, W. R., 263
 Stringer, A., 801
 Stroganov, B., 611
 Strong, M. C., 1534
 Struckmeyer, B. E., 1755, 2143
 Stuart, G. M., 302
 Stuart, N. W., 1508, 2156
 Stubbs, L. L., 1885
 Studer, A., 721
 van Stuijvenberg, J. H. M., 7, 8, 83, 95, 96, 509, 513, 697, 2154, 2155
 Sturdy, M., 2035
 -St. Vincent Agricultural Department, 1723
 Style, L., 681
 Subrahmanyam, V., 1186, 2266
 Suds, R. H., 58
 Suissa, G., 576
 Suit, R. F., 758, 762, 798, 799
 Sukhorukov, K., 611
 Sukhov, K. S., 932
 Summerland, S. A., 1408, 1937
 Summerland Experimental Station, 1655
 Sumnevič, G. P., 1574, 1852
 Sun, V. G., 303
 Svanberg, O., 1876
 Swamy, R. L. N., 1079
 Swanborn, P. L., 990
 Swarbrick, T., 694, 927, 1287, 2314
 (Swarbrick, T.), 1801
 Swart, H. C., 1585
 Sze, L. C., 303
- Tairov, V. E., 2315
 Takahashi, W. N., 1352
 Talbert, T. J., 725a
 Tanada, T., 1626
 Tanganyika, Coffee Research and Experiment Station, 1724
 Tanganyika, Department of Agriculture, 564
 Tarasenko, G. G., 1275
 Tarasova, T., 878
 Tardy, R., 1301
 Tasmania, Plant Pathologist, 891
 Tate, H. D., 916
 Tauber, O. E., 2095
 Tavernier, J., 1689h
 Taylor, G. G., 756, 796, 797, 809, 943
 Taylor, G. M., 382, 1204
 Taylor, H. V., 2316
 Tbilisi Institute of Tea and Sub-Tropics, 1623
 Teixeira Mendes, J. E., 459
 Teixeira Mendes, P., 1603, 2213
 Telford, E. A., 447
 de Tempe, J., 1452h
 Templeman, W. G., 1957
 Terpstra, P., 1435
 Terrier, C., 676, 2150
 Tessier, H., 533
 Teterev, F. K., 1236, 1281
 Tetjurev, V., 323
 Texas Agricultural Experiment Station, 1725
 Thélu, —, 1631
 Thiem, H., 184
 Thirumalachar, M. J., 1133
 Thomas, H. E., 1572, 1575
 Thomas, L. A., 1808
 Thomas, P. H., 689
 Thomas, W. P., 699
 Thompson, A. H., 1312
 Thompson, H. C., 2089
 Thompson, J. M., 1563
 Thomson, B. F., 609
 Thorold, C. A., 473, 2211
 Thorsell, J. E., 1314g
 Thurston, H. W., Jr., 1428, 1985
 Tilemans, E., 1999
 Timmermans, A. S., 406, 407
 Timofeev, N. N., 2018, 2093
 Timson, S. D., 484
 Tincker, M. A. H., 370, 836
 Tisdale, W. B., 2193
 Tishkov, S. I., 319
 Tiver, N. S., 838
 Tjukavkin, P., 888
 Todhunter, E. N., 1517
 Tometorp, G., 203, 1455, 1457
 Topper, B. F., 1610
 Torres, P. G., 2294
 Toruño, J. A., 2227
 Tosello, A., 1178
 Tošić, J., 2295d
 Traas, C. Jr., 669
 Trask, C. G., 1769
 Trautner, E. M., 269
 Trelease, S. F., 28, 655j
 Tressler, D. K., 1661, 1669
 Tribby, E., 1326b
- Trinidad Experiments on Sugar Cane, 570c
 Trinidad and Tobago, Director of Agriculture, 2334
 Tripolitania, British Military Administration, Department of Agriculture, 1726
 Trofimec, N., 1507
 Trofimec, N. H., 1506
 Trofimec, N. K., 895
 Trifimović, A. G., 1897
 Troitski, A. A., 867
 Trouillet, —, 1477
 Trout, S. A., 530, 937
 Tubaj, J., 1160, 1192e
 Tucuman Agricultural Experiment Station, 565
 Tugarinov, V. V., 644
 Toker, G., 1702
 Tukey, H. B., 54, 55, 57, 200j, 1000, 1958, 1959
 Tumanov, I. I., 1341
 Tunblad, B., 159, 1900, 1952, 1990
 Turezkaja, R. K., 389, 1687
 Turnbull, J., 100
 Turner, N., 793, 2131
 Turrell, F. M., 441a
 Twyman, E. S., 1771l
 Tydeman, H. M., 1765, 1792, 1794, 1850
- Uganda, Department of Agriculture, 566, 1729d
 Ulyett, G. C., 2187
 Ulrich, R., 1674, 2269
 Union of S. Africa, Division of Horticulture, 2015
 Uppal, B. N., 1102
 (U.S. Department of Agriculture), 1230h, 1230i
 Usines Omega, S. A., 634
 Ussowsky, B. N., 1693
- Valdeyron, G., 1246, 1272, 1285
 Valdivia, M. A., 1184
 Vallance, L. G., 336
 de Vallière, H., 632
 Valsechi, O., 1170
 Vandenbelt, J. M., 522
 Vanderwaeren, R., 120
 Vang, J., 220
 Vanselow, A. P., 135, 430
 Varier, N. S., 1187
 Varma, S. S. R., 679
 Vasiljev, V. L., 204, 1515
 Vasiljeva, N. A., 1167
 (Vassallo, L.), 410
 Vasseur, R., 1920
 Vasudeva, R. S., 915
 Vayssière, P., 1630
 Veihmeyer, F. J., 87
 Veldstra, H., 8
 Venkataaraman, P. R., 2010n
 Venkataaramani, K. S., 1640
 Verband Schweizerischer Gärtnermeister, 567
 Vercier, J., 1775, 2317
 Verdoorn, F., 541, 582
 Verma, P. M., 1102
 Vidal, I., 1070
 Viel, G., 1443, 1450, 1451
- Vijfinkel, L., 636
 Viljams, V. V., 887
 de Villiers, G. D. B., 206
 de Villiers, P. C., 2152k
 de Vilmorin, R., 1504
 Vinet, E., 1383
 Vinot, M., 1347
 Virtanen, A. I., 1465, 1758
 Viškevič, V. I., 578
 Vladimirov, A. V., 13, 603
 Vladimirov, G. E., 1168
 Voelcker, O. J., 1229
 Volk, N. J., 624, 959
 Volz, E. C., 1571
 Vorhies, C. T., 811
 Voroshilov, V. N., 267
 Voss, A., 203, 1457
 Vovk, A. M., 932, 938
 Vyvyan, M. C., 1311, 1823, 2318
- W., J., 2030
 Wädenswil Versuchsanstalt, 568
 Wager, H. G., 2152 i, 2152
 Wager, V. A., 1035, 2122, 2128
 Wahlberg, H. E., 1032
 Wahlbin, B., 2111
 Wain, R. L., 961
 Walker, H. B., 923
 Walker, J. C., 284, 306, 7, 906, 1518, 1520, 19, 2124
 Walker, W. F., 921
 Wallace, C. R., 226, 2, 2098
 Wallace, E. R., 897
 Wallace, M. D., 177
 Wallace, R. H., 34n, 34o
 Wallace, T., 684, 1772, 18, 2037, 2078, 2119
 Walsh, T., 623
 Walton, R. R., 2107
 Wander, I. W., 84, 85
 Wanschler, J. H., 64
 Wardlaw, C. W., 2235
 Ware, L. M., 211
 Waring, J. H., 134
 Warne, L. G. G., 823
 Washington Agricultural Experiment Station, 1727
 Wason, E. J., 187
 Wasscher, J., 1567
 Waterhouse, D. F., 1996
 (Watkins, J. V.), 999
 Watkins, T. C., 2108
 Watson, E. B., 373
 Watson, R. W., 871
 Watson, S. J., 655k
 Watt, J. H., 706
 West, C. A., 2265
 Weber, C. R., 1541
 Webster, C. C., 1048
 Wehrle, L. P., 811
 (Wei, C. T.), 504
 Weidenhofer, K., 109
 Weiderhold, E., 1172
 Weindling, R., 731
 Wellensiek, S. J., 356, 1, 1614, 1621
 Wellington, R., 112
 Wellman, F. L., 1110

INDEX OF NAMES

- Wellman, R. H., 2010p
Went, F. W., 334, 335, 608,
925, 2114
West, C., 495, 496
West, E. S., 1024, 1028
West African Cacao
Research Institute,
2218, 2335
Westenberg, L., 1435
Wester, H. V., 408f
Westerdijk, J., 728
Weston, W. A. R. D., 345,
751
West Virginia Agricultural
Experiment Station,
1728
Wetmore, R. H., 1001a
Wheeler, E. H., 1942
Whelan, L. A., 1118
Whitaker, T. W., 2106
White, D. G., 178, 1146c,
1220
White, N. H., 763
Whitehead, F. E., 1935
Whitehead, S. B., 1205, 1931
Whitehouse, W. E., 1913
Whitfield, F. G. S., 1438
Whiting, A. G., 1746
Whitnall, A. B. M., 1039
Whittaker, E. C., 78
Whittenberger, R. T., 862,
2070
Whittet, J. N., 168
Wiant, J. S., 1510
Wiederhold, E., 1172
Wiegand, E. H., 528
Wiesmann, R., 182, 229,
231, 290, 301, 307
Wikén, T., 2010m
Wilcke, J., 180, 987
Wilcox, A. N., 126b
Wilcox, J. C., 73, 74
Wilcox, M. S., 1598
Wilcoxon, F., 1771m
de Wilde, J., 909
Wilkinson, E. H., 961, 1380
Williams, J. L., 1192f
Williams, R. F., 588
Williams, V. C., 1310
Williams, W. O., 118
Willison, R. S., 741, 742, 1355
Wills, J. M., 482
Wilson, A. N., 126b
Wilson, D. J., 2044
Wilson, E. E., 1376, 1869
Wilson, G. F., 379, 805, 894,
2157
Wilson, M., 1578
Wiltén, W., 944
Wingard, S. A., 2191
Winklemann, H., 52, 672
Winkler, A. J., 118
Winterberg, S. H., 1740
Winters, H. F., 1112
Wirth, A. G., 76
Withrow, A. P., 333
Withrow, R. B., 1744
Witt, A. W., 1859
Wittwer, S. H., 2101, 2102
Woglum, R. S., 428
Wokes, F., 516, 2295e
Wolcott, G. N., 2003
Wolf, B., 213
Wollenweber, H. W., 155
Wood, E. J. F., 238
Woodcock, H. D., 1816
Woodman, R. M., 1734,
1735, 1736, 2080
Woodroof, J. G., 525
Woodside, A. M., 1915,
2010q
Woolley, F., 436
Work, P., 1704
Wormald, H., 547, 1364,
2319
Wright, D. W., 892
Wright, K. E., 34p
Wright, R. E., 1599
Wyman, D., 374
Wyman, O. L., 134
Yadoff, O., 1422
Yakushkina, N. I., 612
Yarwood, C. E., 645, 946
Yeager, A. F., 512
Yeager, J. F., 812
Yegian, H. M., 294
Young, H. Y., 489, 490,
1138, 2238, 2239
Young, P. A., 1531
Young, R. A., 1050
Yu, T. F., 948, 1538
Zanzibar, Department of
Agriculture, 569, 1615,
2336
Zeller, S. M., 142
Zentmyer, G. A., 1593
Zepkova, G. A., 1686
Zhdanova, L. P., 1239
Zikán, W., 431
Zitney, P. I., 101
Zobrist, L., 736, 905
Zorin, F., 670
Zubrilin, A. A., 1164
Zürich-Oerlikon Versuchs-
anstalt, 570d
Zweede, A. K., 1157, 2257
Zweifel, H., 1657
Zykova, E. A., 242

SUBJECT INDEX

Horticultural Abstracts, Vol. XVI

Aalsmeer, investigations at, 360-362
 Aalsmeer Res. Stat. for Flower Culture, A.R. 1942, 1943, 1944, 548, 549, 1206
Abies sibirica, 577
 Abrasives for virus transmission, 822h
Acacia feddeana, a coffee substitute, 1633
Acanthoscelides (Bruchus) obtectus, 2100, 2132-2134
 Acclimatization—
 of trees and shrubs in Russia, 584
 trials in Queensland, 1228
 Accumulator plants of minor elements, 18
Acer saccharum, 851
 Acetaldehyde—
 content of tomato, 602
 formation in ripening fruits, 1248
Achras zapota, 552, 1406
 Acid—
 content of tomatoes, 2264
 organic—
 of grapefruit juice, 2280
 of lemon juice, 2279
 nutrition affects formation of, 603
 Aconite species as source of drugs and insecticides, 267
Acrobasis caryae, 1946-1948
Acrolepia assectella, 301, 903, 1512
Acromyrmex disciger, 453
 Actinomyces—
 antagonistic to *Fusarium oxysporum cubense*, 1642
 causing necrotic wood in citrus (?), 425
Adoretis sinicus, 1218
Adoxus obscurus, 779
Aeolesthes sarta, 724
 Aerobiology and plant disease, 1349
 Aeroplane—
 for drying cherries, 1867
 for spraying and dusting, 1312, 1716, 1867
 Aerosol—
 bomb for dispensing insecticides, 176
 DDT applied as, *see* Sprays, DDT, aerosol
 fog generator, 811
 growth substances applied as, 2118
Aesculin, a growth substance, 9
 Agar—
 growth substance content, 617
 sources of, 238, 617
Agasphaerops nigra, 1564
Agave—*see also* Sisal—
 anthracnose, 1562
 rigida var. *sisalana*, 433, 1562
 Agriculture in northern latitudes, 581
Agrobacterium tumefaciens—*see also* Crown gall—747
Agronomie tropicale, a French journal, 1207
 Air—
 -borne spores, spread of diseases by, 1349, 1376, 1869
 -conditioning to obviate storage scald, 1648
 -cooled fruit storage, 2244

Air (continued)—
 movement in drained soil, 1743
Albizia spp. as shade trees for coffee, 556, 566
 Alcohol—
 absolute, for mealy bug control, 227
 from bananas, 1678
 from figs, 1726
 from Jerusalem artichoke, 1504
Aleurites—*see also* Tung—
 hybrids, 435
 montana, 2327
Aleurodes brassicae, 905
 Alfalfa dwarf virus, 1362
 Algeria—
 agricultural research, 1314a
 Clementine orange growing, 550
 fig varieties, 671
 fruit investigation, 550
 fruit varieties, 45
 olive growing, 660
 sweet potato growing, 550
 Alkaloids—
 of cinchona, 493b, 552, 1192a, 2242d, 2323
 of *Duboisia* spp., 269, 2057, 2320
 of ergot fungus, 1452h
 of *Lycopodium* and *Sedum*, 551
 of *Nitraria* spp., 587
 in rootstock and scion, 648
 of sabadilla seed, 822a
 of tobacco, 2152c
 Alicin, 822b
Allium spp.—*see also* Onion—
 flowering and pollination, 895, 1506
 polyanthum, 1419
 sativum, source of alicin, 822b
 Allotment trials, 2012
 Almond—
 boron deficiency, 128
 classification, 723
 growing—
 in Baluchistan, 724
 in Kopet-Dag, Russia, 1235
 in Tripolitania, 1726
 pests, 724
 Quetta borer, 724
 rootstocks, 724, 1272
 scale, 724
 Alnarp vegetable variety trials, 203, 1455, 1457, 1548
Alstonia scholaris, 2059
 Alternaria—
 brassicae, 908
 brassicae f. *exitiosa*, 1347
 circinans, 1260
 Danish spp., 1697
 dianthi, 1569
 herculea, 908
 passiflorae, 448, 713
 radicina—
 on celery seedlings, 1348
 rot in carrots, 289
 rot of cherries, 1428
 solani, 338, 934, 2125, 2126

Altitude affects—
 storage quality of apples, 658
 vitamin C content of roses, 1686
 Aluminium—
 absorption, 1255
 dross, a nitrogen fertilizer, 637
 foil for increasing reflection on espalier walls, 568
 in soils and plants, 34f
 toxicity, 34p, 646, 1766
Amaranthus gangeticus, 606
Amaryllis belladonna, organ formation in, 391
Amelanchier vulgaris, infected by *Poly-poraceae*, 152
 Amino acid(s)—
 composition of seed globulins, 1770
 a nitrogen source for higher plants, 1758
Amorpha fruticosa, 1986
Ampelodesmos tenax, a fibre plant, 1476
 Amsterdam, Proeftuin Hollandsch-Utrechtsch Veendistrict, A.R. 1943, 1208
Amygdalocerasus spp., 2172a
 Amylase inhibitor of navy beans, 359b
 Amylose content of pea starch, 2152f
Anasa tristis, 177, 916
Anarsia lineatella, 1439
Anastrepha—
 ludens, 452
 manihoti, 431
 serpentina, 1406
 Anemone—
 culture, 1714
 development, 392
 pulsatilla, bactericide from, 2010a
Anguillulina—
 dipsaci, 897, 2021
 pratensis, 1215, 2209
Anisandrus dispar, 1912
Annona reticulata, rootstock for cherries, 2330
 Annuals, ornamental, in California, 966
 Annual Report—
 Aalsmeer Vereniging de Proeftuin voor de Bloemteelt 1942 and 1943 and 1944, 548, 549, 1206
 Amsterdam, Proeftuin Hollandsch-Utrechtsch Veendistrict te 1943, 1208
 Australia, C.S.I.R. 1944/45, 2320
 Barbados Dep. Sci. Agric. 1944/45, 1729b
 Basutoland Dep. Agric. 1944/45, 2337a
 Boskoop, "de Proeftuin" te, 1943 and 1944, 1209, 1210
 British Guiana Dir. Agric. 1944, 2321
 Buitenpost Proef- en Verwerkingsbedrijf de teelt van geneeskrachtige aromatische een aanverwante gewassen 1938 and 1939 and 1941 and 1942 and 1943, 1211
 Campden Fruit and Vegetable Preservation Res. Stat. 1945, 2322
 Cawthron Inst. N.Z. 1944/45, 1213

SUBJECT INDEX

Annual Report (continued)—

Ceylon Dir. Agric. Rep. 1943 and 1944, 552, 2323
 Cheshunt exp. Res. Stat. 1944, 1706
 Coffee Res. Stat. Lymungu, Moshi 1944, 1724
 Comptes rendus Expér. fruitière en Algérie 1943 and 1944, 550
 Cyprus Dep. Agric. 1944 and 1945, 554, 2324
 Danish Horticultural Association 1945, 2325
 Delaware Agricultural Experiment Station 1944/45, 1707
 Dominica Dep. Agric. 1944, 1230b
 Dominion of Canada, Minist. Agric. 1944/45, 1212
 East Malling Res. Stat. 1945, 2326
 Eidgenössische landw. Versuchsanstalt Zürich-Oerlikon 1938/42, 570d
 Eidgenössische Versuchsanstalt für Obst-Wein- u. Gartenbau in Wädenswil 1943, 568
 Éire Minist. Agric. 1944/45, 2337b
 Fermentation Industries 1945, 2337c
 Field Expts. on Sugar Cane in Trinidad 1943, 570c
 Florida agric. Exp. Stat. 1944/45, 2327
 Georgia agric. Exp. Stat. 1944/45, 1709
 Gold Coast Dep. Agric. 1944/45, 1217
 Hawaii agric. Exp. Stat. 1942/44, 1218
 Imp. Coun. agric. Res. India 1944/45, 1220
 India Tea Ass. sci. Dep. Toklai 1943 and 1944, 555
 Inst. Onderz. Geb. Verwerk. Fruit Groenten 1940 and 1941 and 1942, 557-559
 Iowa agric. Exp. Stat. 1944/45, 2328
 Jamaica Dep. Agric. 1944/45, 1712
 John Innes Inst. 1945, 1713
 De Lange Ossekampen manurial trials A.R. 1939 and 1940 and 1941 and 1942, 560, 570a
 Leek, Proeftuin te, 1944/45, 1230c
 Kvithamar i Stjördal, Stat. forsksgård i gronskdyrknig 1941 and 1942 and 1943, 1221-1223
 Lausanne—see below, Station
 Long Ashton Res. Stat. 1945, 2329
 Macaulay Inst. for Soil Sci. 1944/45, 1224
 Madras Dep. Agric., work of agric. Stats. 1943/44, 2330
 Massachusetts agric. Exp. Stat. 1944/45, 1714
 Mauritius Dep. Agric. 1944, 1225
 Mauritius Sugar Cane Res. Stat. 1944, 1230d
 Nat. Inst. agric. Botany Cambridge 1943/44, 570b
 Nat. Inst. agric. Engineering, Askham Bryan 1944/45, 1226
 Nat. Res. Coun. Canada 1944/45, 551
 Nebraska agric. Exp. Stat. 1942 and 1943 and 1945, 1230e, 1230f, 1715
 New Jersey agric. Exp. Stat. 1944/45, 2337c
 New Zealand Dep. Agric. 1944/45, 1227
 New Zealand D.S.I.R. 1945/46, 2331
 Nigeria Dep. Agric. 1944, 2332
 Northern Ireland agric. Res. Inst. Hillsborough 1944/45 and 1945/46, 1219, 2337d

Annual Report (continued)—

Northern Rhodesia Dep. Agric. 1944, 1230g
 Nyasaland Dep. Agric. 1944, 562
 Office Recherche sci. colon. 1945, 1729c
 J. E. Ohlsens Enkes plantepat. Lab. 1942/43 and 1940/41 and 1941/42 and 1943/44 and 1944/45, 563, 2333
 Palestine Dep. Agric. 1944/45, 1717
 Pennsylvania agric. Exp. Stat. 1944/45, 1718
 Queensland Acclimatisation Society 1944/45, 1228
 Rubber Res. Bd Ceylon 1944, 1214
 Science Service, Dominion of Canada, Dep. Agric. 1944/45, 1705
 Seychelles Dep. Agric. 1940 and 1941 and 1942 and 1943 and 1944, 1721
 Sierra Leone Dep. Agric. 1944, 1722
 St. Vincent agric. Dep. 1944, 1723
 Station fédérale d'essais vitic. et arboric., Lausanne et Domaine de Pully 1943-1944, 561
 Tanganyika Dep. Agric. 1944, 564
 Tea Res. Inst. Ceylon 1944, 1215
 Texas agric. Exp. Stat. 1944, 1725
 Trinidad and Tobago Dir. Agric. Administ. Rep. 1943 and 1944, 2334
 Tucuman agric. Exp. Stat. 1943, 565
 Uganda Dep. Agric. 1943/44 and 1944/45, 566, 1729d
 Wädenswil—see above, Eidgenössische
 Washington agric. Exp. Stat. 1944/45, 1727
 West African Cacao Res. Inst., Tafo 1944/45 and 1945/46, 1229, 2335
 Zanzibar Dep. Agric. 1944 and 1945, 569 and 2336
 Zürich-Oerlikon—see above, Eidgenössische
 Ants—
 cacao capsid control by, 2335
 control, 1065, 1632, 1952, 1997
 leaf cutting, 453, 1062-1064
 as rose pests, 384
Antestia lineaticollis, 1630, 1631
Anthocyanins of gladiolus, 2172c
Anthrenomus—
cinctus, 1928
pomorum—see apple blossom weevil
rubi, 1402
 Antibiotics—see also Bactericides—
 for plant disease control, 1968, 1969
 Antibodies, term explained, 730
 Antilles, Lesser, insect pests, 1069
Antirrhinum—see Snapdragon
 Antiseptics affect pollen germination, 1247
Anuraphis—
persicae-niger, 187, 1997
tulipae, on carrot roots, 291
Aonidiella aurantii—see Citrus red scale
Aphaerata cephalotes, a parasite of onion fly, 1512
Aphanus sordidus in stored ground nut, 2332
Aphelenchus cocophilus in areca palm, 1133
Aphelinus mali, 1717, 1921, 1922
 Aphid—
 apple, 191, 1408, 1974
 bean, 348, 1997, 2100
 black peach, 187, 724, 1997
 cabbage—
 and cabbage worm control, 2094
 DDT resistant, 905, 1997

Aphid (continued)—

carrot, 225, 809
 control by—
 Gesapon, 184
 HCN fumigation, 638
 Idosect, 1995
 selenium injection, 1991
 sulphur, 1993
 and DDT, 187, 905, 1408, 1439, 1440, 1718, 1974, 1997, 2100
 eggs for testing winter sprays, 191
 green peach, 187, 200f, 405, 724, 1997
 grey, 187
 on house plants, 2172e
 mustard, 855
 pea, 1554, 2147-2149
 potato, 1997
 predators and DDT, 2100
 red currant, 200e
 red leaf, of apple, 772
 resistance testing, 918
 shallot, a vector of virus, 2088
 strawberry, 546, 1890, 1891
 woolly—
 on cotoneaster, 379
 and DDT, 1432, 1997
 in Holland, 1922
 parasites, 1717, 1921, 1922
 resistance in apple, 1713, 1808, 2320, 2330
 in Sweden, 162
 Aphis—
brassicae, 905, 2094
fabae, 348, 1997, 2100
gossypii, 918
pomi, 191
Aplanobacter michiganense on tomatoes, 933
 Apocynum—
 spp., American, a source of fibre, rubber and resins in Russia, 1496, 1497
sibericum, 844
 Apple—
 aphid control, 1408, 1974
Armillaria root rot, 747
 ascorbic acid oxidized by enzymes, 2263
 bark necrosis, internal, 1332
 biennial bearing, 1212
 biochemistry, 2303
 bitter pit, 737, 1883
 black root rot (*Xylaria mali*), 747
 black spot—see Apple scab
 blossom—
 frost damage, 140, 1339
 thinning by sprays, 91,
 weather affects time of, 1825
 weevil, 773-776, 1375, 1399-1401, 1924-1927
 boron deficiency, 1883
 breeding—
 at East Malling, 1792, 1794
 at Iowa, 1793
 in Sweden, 1268, 1791, 1795
 Brooks' fruit spot (*Phoma pomi*), 1368
 brown rot, 1906
 brown tail moth, 1411
 bud opening, growth substances retard, 1715
 canker—
 perennial, 1380
 related to scab susceptibility, 1899
 cherry interplanted with, 1782
 cider fruit, 1787
 cockchafer (*Melolontha melolontha*), 1912

SUBJECT INDEX

Apple (continued)—

codling moth, 781, 1912, 1933-1939
 colour—
 and storage, 697
 thiocyanate sprays to increase, 1728
 collar blight, 747
 cotton root rot fungus, 747
 core flush, 1655
 cover crops, 1781
 crab leaf miner, 1912
 cracking, 1879
 crown gall, 747, 1897
 cuttings, 1714
 damping off and collar disease, 747
 deficiency symptoms, 684
 dehydroascorbic acid content, 1685
 dessert, in England, 1785
 die-back, 1353
 dips—see below, storage dips
 dwarf pyramids—see also below, spin-
 delbusch—1786, 1809, 1834
Elsinoë piri, 1903
 emanations injure azaleas, 2164
 feathered thorn (*Colotois pennaria*), 1912
 fire blight, 1718
 framework stocks, 1291
 frost—
 damage, spring, 140, 1339
 injury repaired, 544
 resistance, 1342
 fruit—
 drop, premature, prevention by spray-
 ing or dusting, 97, 98, 694, 695,
 1311, 1312, 1827, 1828, 1830, 1831
 fly, 780
 miner, 1932
 Rhynchites, 1912
 spectrophotometrical analysis, 70
 fumigation—
 against Japanese beetle, 1707
 against San José scale, 771
 green crinkle, 2331
 growing—
 in Belgium, 40
 climate and soil adjusted to suit,
 663
 in England, 664, 1276, 1783-1785, 2316
 on farms, 1784
 in Finland, 1781
 in Guatemala, 2232
 intensive, 1810
 in Pennsylvania, 1719
 in the Wisbech District, 664
 hare damage, 1293
 harvesting following hormone spraying,
 1312
 internal cork, 1883
 irrigation, 86
 Japanese beetle control, 1707
 juice—
 ascorbic acid assay, 1655
 concentration, 1655, 2275
 fortification, 1212, 2277
 production in Sweden, 2273
 leaf—
 Carolus' tissue testing method, 2331
 chlorophyll determination, 66
 hopper, 164, 1408, 1936
 structure related to spray penetration,
 1984
 lenticel spotting, 1898
 maggot, 2328
 magnesium deficiency, 132-134, 1213,
 1714

Apple (continued)—

manganese, excessive, causes internal
 bark necrosis, 1332
 manuring—
 in Denmark, 80
 green, 90, 1728
 nitrogen, 1718, 1728
 marketing in northwestern U.S.A., 1314d
 measles, 765, 1332
 mildew (*Podosphaera*) resistance, 1795
 moth, brown, a pest of grape and citrus,
 1043
 mushroom root rot, 747
 must, nitrogen content, 1689h
 pectin, 1688, 2281, 2288
 pest control by birds, 2312
Phytophthora root rot, 747
 planting—
 distance of permanent and temporary
 trees, 1810
 depth, 75
 on terraces, 2328
Pleospora mali disease, 1901
 plum curculio control, 1714
 pollination—
 blossom structure affects, 63
 in Sweden, 61, 677
 in Switzerland, 676
 pomace, 1688
 potassium deficiency favours storage
 rots, 1898
 polyploid, spontaneous origin of, 99b
 preservation by freezing, 1149, 1655
 protein extraction, 2258, 2259
 pruning—
 dwarf pyramids, 1786, 1809, 1834
 severe, favours canker, 1899
 red leaf aphid, 772
 ripe spot, 756, 1227
 ripening, growth substances affect, 558
 root—
 cuttings, 1807
 growth and soil factors, 74
 rootstocks—
 Australian trials, 1808
 for Belle de Boskoop, 59
 breeding—
 at East Malling, 1792
 in Russia, 1275
 for cider varieties, 1787
 Clark's Dwarf, 2328
 crab—
 clonal, from seedlings, 1806
 in India, 2330
 Malling C, 1807
 Seedling, French (Double Vigour),
 1213
 Virginia, 1715, 2328
 Čulanovka, 1290
 in Denmark, 1811
 Double Vigour, 1213
 East Malling—
 in Australia, 1808
 in Finland, 1781
 in Madras, 2330
 in New Zealand, 1213
 in West Virginia, 58
 work at East Malling, 1802
 I, 1809
 IV, 1289
 IV and IX, hurricane damage to
 trees on, 1714
 XVI, 1809
 hardy, 1290

Apple—rootstocks (continued)—

Hibernal, 1715, 1793, 2328
 identification, 1804
 Merton, 1808, 2320, 2330
 Northern Spy, 1213, 1714, 1808
Pyrus ioensis, 1715
 -scion relationships, 1287, 1289,
 1714
 seedling, 1714, 1806
 storage life affected by, 1288, 1655,
 1898, 2331
 topworking of, 1291
 Virginia Crab, 1715, 2328
 woolly aphid resistance, 1808, 2320,
 2330
Rosellinia root rot, 747
 rot—
 Coryneum folliculorum, 1350
 Diaporthe sp., 1350
 rust, 1349, 1718
 scab—
 control, 153, 154, 751-754, 813, 822i,
 1365-1375, 1428, 1900, 1974, 1985
 ground treatment, 1366, 1367, 1370
 spore dissemination, 1349
 susceptibility and canker incidence,
 1899
 warnings, 1331, 1369, 1373, 1374
 scald—
 gas storage affects, 1655, 1714
 gases removed by air conditioning,
 1648
 growth substances control, 1831
 pre-storage treatment affects, 502, 503
 shading affects, 1648
 volatile production related to, 498,
 1648
 shot hole borer, 1912
 soil—
 management, 90, 1781
 moisture and biennial bearing, 73
 spacing, 1810
 spinelbusch, 76, 568
 spray(ing)—
 calendar, 791, 795
 injury, 1428, 1974
 new fungicides, 1428, 1430
 to prevent preharvest drop—see
 Apple fruit drop
 role of spreaders in protective
 fungicides, 1427
 spring usher (*Erannis leucophaearia*),
 1912
 storage—
 altitude affects quality, 658
 biochemical tests, 1650
 Bodenmeer method, 2247
 in Canada, 1647, 1655, 2248
 cold, 495, 1655
 Cox's, quality affected by, 495
 Delicious, 1650
 dips, 501, 1831, 2320
 ethylene production, 499
 frozen pack, 2268, 2269
 gas, 494, 495, 502, 503, 1647, 1655,
 1714, 2248, 2331
 ground beetle (*Laemostemus terricola*)
 1912
 growth substances—
 quality not affected by, 1832
 ripening affected by, 558
 moss in, 2245
 quality related to dehydroascorbic
 acid content, 1685

SUBJECT INDEX

Apple—storage (continued)—

Red Star, 697
respiration, 497, 500
rootstock affects, 1288, 1655, 1898, 2331
rots, orchard factors affecting, 1898
scald control, 1648, 1831
spraying for ripe spot extends life, 756
Swedish trials, 2246
time of picking affects, 1288
volatile production, 497, 498
wraps, 2247
sun scald, 736, 1901
syrup, 1655
tetraploid, 1268, 1685, 1795
training—
dwarf pyramid, 1786, 1809, 1834
spindelbusch, 76, 568
tree raising, 2312
triploid, 1268, 1685, 1713, 1795
twig cutter (*Rhynchites coeruleus*), 1912
twisting of stems, 1298
varieties—
American, for England, 1274
Annie Elizabeth, 668
for Belgium, 44
Belle de Boskoop, rootstocks for, 59
Bramley's Seedling, 496
Canadian, in Finland, 1796
cider, 1787
Cox's Orange Pippin—
red sport, 47
storage, 495
Delicious, in storage, 1650
early—
in Canada, 1212
escape serious codling moth damage, 1935
frost resistance in Russia, 544
Glöcknapfel, 46
Hawkeye Greening, 1793
in Holland, 669
Joan, 1793
McIntosh, freezing of, 1665
Melba in Finland, 1314e, 1796
Northern Spy triploids, 1713
Secor, 1793
Sharon, 1793
storage behaviour, 1647, 1655
storm damage susceptibility, 733
in Switzerland, 1200
Tydeman's—
Early Worcester, 1794
Late Cox, 1794
Uverdsäpple, 1797
vitamin C content, 1213, 2260, 2328, 2331
Willow Twig, rich in vitamin C, 2328
vitamin—see also above, varieties—
B in buds and shoots, 68
C content in polyloid, 1685
volatile production related to scald, 498, 1648
wasp and hornet control, 1951
water core, 739
weed control, 1714
white root rot, 747
woolly aphid—
control, 1717
resistance, 1713, 1808, 2320, 2330
Apmoxis in guayule, 2075
Apricot—
brown rot (*Monilia, Sclerotinia*), 666, 1908

Apricot (continued)—

bud opening, growth substances retard, 1715
dehydration, 530, 1655
early, hardy, in Canada, 1212
fluorine injury, 2009
fumigation against San José scale, 771
grass grub (*Odontria*), 809
green rot, 1909
growing in Germany, 667
irrigation, 1587
peach twig borer, 1439
pruning, 666
rootstocks, 667, 1212, 1272
seed cake, a nitrogenous manure, 688
storage, frozen pack, 2267
Arasan, for seed disinfection, 298, 908, 1552
Arbutus, trailing, seed production in, 408a
Arching induces fruiting, 1835
Areca palm, bud rot, 1133
Argentina—
citrus rootstocks, 2181
macadamia nut growing, 483
sunflower growing, 2053
weeds in, 1955
Argyresthia—
ephippiella, 784
sp., 1932
Armilaria—
mellea, a source of vitamin PP, 358
root rot, 747, 1346, 1347, 1377, 1390
Arnold Arboretum, 374
Arsenate, calcium, diluents of, 2135
Arsenic—
in grape must and wine, 1689c
injury to bean plants, 2135
Artemisia spp., a source of camphor, 2058
Artichoke, Jerusalem, 293, 1503, 1504
Asclepias—
spp. as fibre plants, 254
syriaca—
pod types of, 2152j
a rubber plant, 871
Ascochyta—
phaseolorum and boltshauseri, 947
pinodella, 960
Ascorbic acid—see also Vitamin C—
assay—
in apple juice, 1655
in dehydrated vegetables, 1181
in citrus juice, 1163
methods, 1160, 1168
in tomato juice, 1163
enzymes oxidizing, 2263
formation—
manganese favours, 606
manuring affects, 603
isolation from rose hips, 1192e
oxidase content of carrots, 2265
oxidation by vegetable extracts, 1689f
protection in dehydration, 1176, 1177
stabilization by sulphuric acid, 1167
in storage, 509
Asparagine from Indian pulses, 1107
Asparagus—
fly, 359d
forcing, 1221
harvesting, 1513
polyembryony in, 964o
spacing affects yields, 2089
stem tips, *in vitro* culture of, 2090
wilt and root rot (*Fusarium oxysporum* f. *asparagi*), 1514

Aspergill acid, 1968

Aspergillus—
on coffee beans, 2214
fumigatus, antibiotic formation of, 2010n
Assimilation rate in relation to growth, net, 588
Aster yellow related to kok saghyz yellow and tomato big bud, 932
Asterolecanium coffeae, 556, 1146b
Atmospheric environment affects toxicity of insecticides, 1988
Atomic bomb affects weed germination, 1769
Atropa belladonna, 1635, 2064
Atta—
sexdens *rubropilosa*, 453
spp., 1064, 1632
Attalea spectabilis, 1131
Aureogenus magnivena—
in roots, 219, 1886
in wound tumours, 1886
Australia—see also individual States—
apple rootstocks, 1808
fruit growing, 1702
macadamia nut growing, 482
North—
tropical fruit growing, 2198
vegetable growing, 2198
South, rural industries, 572
tomato varieties, 2112
weed control, 1953
Autographa—
brassicae, 910, 911, 2097
sp., 950
Auxin—see Growth substances
Avocado—
breeding, 1613c
budding, 1610
composition, 1613a, 1613b
decline not related to boron deficiency, 1611
growing—
in Chile, 2184
in Jamaica, 1610
nursery trees, 1609
Phytophthora cinnamomi control, 1613c
respiration, oxygen concentration affects, 2251
rootstocks, 1609
storage, 2251
trials in Hawaii, 1218
varieties—
Fuerte, 1608, 1610, 1613a, 1613b
Hass, 1607
weed control, 1612
Azalea—
apple emanations injure, 2164
cuttings, 2331
Japanese, photoperiod trials, 982
mollis, soil pH affects, 967
wilting disease (*Cylindrocarpon*), 983
Bacillus aroideae, 150
Bacterial—
canker—
of stone fruit, 1895, 1896
of tomato, 1530
disease of nettle tree, 1580
plant galls, 745
pustule of soybean, 1543
rot, bactericides control, 150
shot-hole disease of plums, 1896
spore dissemination by wind, 1349

Bacterial (*continued*)—
 spores, longevity, 1260
 wilt of egg plants, 2128
 Bactericides—
 allicin, 822b
Anemone pulsatilla, a source of, 2010a
Aspergillus fumigatus a source of, 2010n
 cabbage seed extract, 1969
 crucifer extracts, 1973
 forest litter, a source of, 2010m
 honey as, 151
 pH determines toxicity, 1973
 for plant disease control, 1968
 polyporin, 1971
 volatile oils as, 577
 Bacteriosis—
 of beans, 344
 causes water-core of apples, 739
 Bacterium—
flaccumfaciens, 344
marginatum, 2166
mori, 1346
solanacearum, 2128
tumeifaciens—see also Crown gall—
 secretes growth substances, 611
Baeria chrysostoma, 1742
 Balsam—
 Canada, substitute, 577
 tree tapping, 1110
 Baluchistan—
 almond growing, 724
 fruit canning, 1658
 Bamboo cultivation—
 in Ecuador, 457
 in U.S.A., 1050
 Banana—
 alcohol from, 1678
Cercospora leaf spot, 448
 flour, tannin determination in, 1192c
 growing—
 in Brazil, 1639
 at Dead Sea, 2188
 hurricane damage, 1712
Musa fehi, indigenous Fiji species, 1641
 Panama disease, 1642, 2235
 polyploidy in, 1646a, 2242b
 speckle, 448
 varieties, Kaio, 1640
 weevil borer, 1617
 weight of bunch, 1136
 Barbados Dep. Sci. Agric. A.R. 1944/45,
 1729b
 Basutoland Dep. Agric. A.R. 1944/45,
 2337a
 Bay rum growing in Puerto Rico, 1109
 Bean—
 aluminium toxicity, 1766
 anthracnose, 347, 943
 aphid, 348, 1997, 2100
 arsenic injury, 2135
Ascochyta spot disease, 947
 bacteriosis, a new, 344
 beetle, Mexican (*Epilachna varivestis*),
 349, 1994
 broad—
 powdery mildew, 1538
 red spot disease (*Botrytis fabae*),
 948
 Chinese rose beetle (*Adoretis*), 1218
 copper deficiency, 1877
 disease incidence and weather conditions,
 940
 dolichos, witchweed (*Striga hermonthica*)
 parasitizes, 1539

Bean (*continued*)—
 French—
 boron deficiency and injury, 939
 on coffee estates in Brazil, 1086
 seed certification in New South Wales,
 342
 vitamin C content, 518
 green, dehydration, 1655
 growth substance effect on, 1745-1748
 halo blight, 347, 940-944
 haricot, Merton Haricot, 1713
 jack, carboxylase activity, 2152a
 leaf and pod spot, overwintering of
Xanthomonas phaseoli, 2136
 lima—
 growth substance to prevent flower
 and fruit drop, 350, 1707
Lygus bug causes seed pitting, 2137
 quality tests, 521
 vine borer (*Monopitola pergratialis*),
 953
 locust, 1726
 manganese toxicity, 1766
 mosaic, 938, 940, 1537, 2129, 2130
 navy, amylase inhibitor of, 359b
 powdery mildew, 946
 rot, 345
 seed—
 disinfection, 347, 949, 2133
 germination, abnormal, 1536
 snap—
 green clover worm, 950
 varieties susceptible to *Fusarium*
 yellows, 346
 stipple streak virus, 940
 string—
 potato leaf hopper, 951
 -less, great fir weevil (*Hylobius*
abietis), 952
 symphyliid control, 949
 varieties, halo blight resistant, 941
 vitamin content, maturity affects, 343
 weevil, 2100, 2132-2134
 wilt (*Corynebacterium flaccumfaciens*),
 945
 Bee(s)—
 and DDT, 195, 808, 822c, 1442, 2000,
 2052, 2100
 foul-brood, 1713, 1824
 -keeping, 1198, 1205, 1823
 pollinate fibre flax, 837
 spray danger, other than DDT; 194, 196,
 1445, 1446, 2010f
 Beet—
 boron deficiency, 283, 284
 damping-off, 731 (v)
 dehydration, 1655
 eelworm, 2021
 manganese deficiency, 283
 manuring, 2037
 pocket rot, 745
 storage for seed, 1655
 silver, leaf spot, 308
 webworm, 291
 Beetle—see Colorado beetle, Flea beetle,
 etc.
 Beetroot, genetics of colour, 282
 Begonia—
 cuttings, growth substance treatment,
 548
 mite infestation, 399, 400, 548, 996
semperflorens, 408b
 virus disease, 831
 winter-flowering, the culture of, 398

Belgian Congo—
 cacao growing, 2217
 cinchona growing, 1113
 forest clearance, 2199
Hevea growing, 1114, 2228
 paper sources, 1058
Peperomia spp. and *Piper* spp., 444
 soil requirements, 2242c
 Belium—
 apple growing, 40, 44
 chervil growing, 292
 evergreen ornamental shrubs, 376
 pear varieties for, 44
 spray calendar, 1977
 vine growing, 1319
Belonuchus formosus, a predator of fruit
 larvae, 431
 Benzoic acid, growth substance, 10
Berberis cuttings, 975
 Berlin-Dahlem, Horticultural Research
 Station, 580
 Bermuda grass, herbicides control, 1070
 Berri-Barmera Frost Committee, 1878
Bertholletia excelsa, 1130
 Biennial bearing—
 apple, 1212
 soil moisture and, 73
 Bindweed control—
 with growth substances, 200j, 1954
 by shade, 169
 Biological—
 control—
 of diseases, 731 (iii)
 of insect pests, 449, 451, 454
 of soil pests, 835
 field stations, 34h
 function of minor elements, 20
 principles of fruit research, 35
 Biotrophy, meaning of term, 730
 Bird control in orchards, 789
Bismarckia nobilis palm, 1131
 Black beetle (*Heteronychus sanctaehelenae*)
 DDT controls, 226, 234
 Blackberry—
 fruit set induced by growth substance
 2118
 growing in Georgia, 1709
 preservation by quick freezing, 1668
 Black currant—see also Currant—
 bud mite, 767
 dithiocarbamate spray residue, 2008
 growing in England, 100
 a source of vitamin P, 517
 varieties—
 for the garden, 1850
 resistant to white pine blister rust,
 1212
 for Russia, 101
 Blueberry—
 bud mite, 1917
 cuttings, 1714
 dehydration, 526, 531, 1655
 stunt virus disease, 1888
Boaivaia integerrima, a cacao shade tree,
 473
Boehmeria spp. as fibre plants, 848
Boletus spp. a source of vitamin P,
 358
Bombax spp. as fibre plants, 1071
 Books, scientific, selected list, 1690
Borassus flabellifer palm, 1131
 Borax—
 injury to French beans, 939
 tolerance in vegetables, 1501

- Boron—
analysis, 22
compounds in the plant, solubility of, 607
content of citrus, rootstock affects, 420
deficiency—
in almond, 128
in apple, 1883
in avocado, 1611
in beans, 939
in beets, 283, 284
in citrus, 419, 420
in coffee, 1218
in cucumber, 337
in flax, 249
in fruit trees, 738
grape vine, 1335
growth substance in nutrient solution overcomes, 608
in kok saghyz, 881, 2068
in lettuce, 1706
microscopic study, 129
in olive, 128, 200a
in soil diagnosed, 1760
in Swedish crops, 1874
in sweet potato, 1601
in tomatoes, 283, 337
in vegetables, 1501
in walnut, 128
fertilizer, bog peat and wood ash a substitute, 839
role of, 341, 1759
Boskoop, "De Proeftuin" te, A.R. 1943 and 1944, 1209, 1210
Botanic gardens for native flora of South and South-West Africa, 586
Botany, agricultural, 2310
Botrytis—
elliptica, 2167
fabae, 948
gladioli or gladiolorum, 406, 407, 993, 2166
in grape, 1911
in lemon, 1593
in lettuce, 310
in onions, 897, 898
squamosa, perfect stage, 2086
in sunflower, 859
Box psyllid (*Psylla buxi*), 987, 988
Brassica(s)—
flea beetle attack, 2099
juncea var. *linearifolia* (tsontsai), 303
manuring, 2037
napus, 1484, 1485
oleiferous, of Punjab classified, 1483
spp., mustard oil content, 1482
spray injury, 2083
Brazil—
citrus rootstocks, 2174
coconut growing, 487
coffee growing, 459, 1083, 1094, 2212
egg plant growing, 340
menthol production, 1103
nut, 1130
oil yielding palms, 1132
tung growing, 435, 436, 1603
vanilla growing, 474
Breeding—
apples, 1268, 1713, 1791-1795
apple rootstocks, 1275, 1792
avocado, 1613c
black raspberry, 2328
cabbage, 1518, 2093
chestnuts, 1324
Breeding (continued)—
chrysanthemum, 1694
Cyclamen persicum, 1567
fruit, Burbank's work, 1694
grape vine, 1257, 1645
hazel, 1862
Hevea in Ceylon, 1214
kok saghyz, 876
lettuce, 2093
oil—
palm, 1634
seeds, 1220
onions, 1506
peas, 356
peaches, 1257, 1282
pears, 1268
plant, in Russia, 1733
plums, 1694, 1800
raspberries, 1316, 1317, 2328
small fruit, 702, 825, 826, 1268, 1315, 1316
snapdragon, 1714
squashes, 1257
strawberries, 1707
tau saghyz, 875
tobacco, 964r
tomatoes, 922, 923, 934, 1218, 1713
tung, 1048
vegetables, 205, 825, 826
Bremia lactucae, 750, 2104
Brevicoryne brassicae, 1997, 2094, 2100
Brine test in canned peas, 2283
Bridged citrus peel industry, 2293
British—
Guiana Dir. Agric. Administ. Rep. 1944, 2321
plant life, 1771h
Broccoli growing in England, 2096
Bromeliaceae—
HCN fumigation injury, 2032
spp. as fibre plants, 2237
Brooklyn Botanic Garden Chestnut Breeding Project, 1324
Brown rot dissemination by *Rhynchites* spp., 1398
Bruchus obtectus, 2100, 2132-2134
Brush shredder for shredding prunings, Hercules, 1702
Brussels sprouts growing in England, 2091, 2092
Buckskin disease of peaches and cherries, 143
Buckwheat, a source of rutin, 1492
Bud(s)—
-bearing roots, 1245
development of spring plants, 392
dormancy, breaking of, 598
mutations in marigold, 368
mycoflora of, 148
opening, growth substances retard, 1715
Budding—
avocado, 1610
citrus, 1007
deciduous fruit, 51, 672
Hevea, 1116
kola, 2332
peach, 2330
plum, 2330
tea, 1621
vine by the long pied method, 719
Buitenpost, Proef- en Verwerkingsbedrijf de teelt van geneeskrachtige aromatische en aanverwante gewassen te, 1938 and 1939 and 1941 and 1942 and 1943, 1211
Bulb—
culture in Holland, flower, 386, 574
fumigation, flower, 2327
Bulbous plants, terminology of flower development in, 387
Buprestid borer, 724
Burbank, Luther, 1694
Butternut, American (*Juglans cinerea*), 122
Buttercup, poisonous (*Ranunculus sceleratus*), 867
Buxus sempervirens, soil pH affects, 967
Cabbage—
Alternaria diseases, 905, 908
aphid—
DDT resistant, 1997, 2100
and white butterfly, 2094
ascorbic acid content, high, combined with yellows-resistance, 1518
breeding, 1518, 2093
centre grub, 1997
club root, 905
cluster grub, 1997
dehydration, 1159, 1655
dehydroascorbic acid content, 1517
diamond back moth, 187, 233, 305, 911, 1997, 2022, 2100
disaccharide formation, 1519
disease control, 905
downy mildew, 905, 907, 1520
fertilizer placement, 904
fly, 581, 905, 909, 2014
growing in England, 2091
growth substance content, 1751
head quality related to length of growing season, 2093
leaf beetle, 2109
looper, 910, 911
manuring—
nitrogen, 1516
Ohio trials, 2092
phosphate, 2092
midge, 229, 307, 905
moth, 2100
pest control, 905, 2100
propagation from root cuttings, 304
seed—
extract, antibiotic principle in, 1969
production, 2015
storage, 1260
stem weevil, 2100
storage, 511
varieties—
a germination inhibitor in the seed coat of, 359e
for North Russia, 1515
virus diseases, 306, 906
white butterfly, 305, 809, 910, 911, 1997, 2100
white fly, 905
worm, imported, 2095
yellows-resistant, 1518
Cacao—
Calonectria rigidiuscula fungus, 2335
capsid—
control, 1229, 2335
-resistant clones, 1229
clones, Trinidad trials, 2215, 2216
Coccoidea spp. as virus vectors, 1098, 2335
cuttings, 1229, 2215, 2332, 2335
field experiments, design of, 470
growing—
in Belgian Congo, 2217

Cacao—growing (*continued*)—
in Nigeria, 2332
in Zanzibar, 2336
-Hevea mixed plantings, 1115, 2217
incompatibility, 472
Jamesonia theobromae pest, 1099
leaf decomposition, 1096
mineral deficiencies, 1229
pollination—
insects, 1100
interspecific, 471
red mottle virus, 2334
rehabilitation—
in Ecuador, 1095
in Gold Coast, 1217, 1229
shade trees, 473
soil survey, 2335
swollen shoot—
disease, 1097, 1098, 1217, 1229, 2218,
2332, 2335
virus strains, 1229
thrips, 1617
vein-clearing virus, 2334
witches' broom resistance, 2334
world production, 469
Caesalpinia bonducella, 2059
Cajanus indicus, 456, 462, 556
Calcium—
absorption by peanuts, 2192
carbohydrate metabolism affected by,
1254
content—
of leafy vegetables, 218
manuring affects, 1757
deficiency and soil acidity, 1766
injury to lupins, 646
lettuce composition affected by, 1714
salts for freezing apples, 1665
California—
citrus decline, 1588, 1589
fruit acreage, 715
guava growing, 481
hemp growing, 1558e
nut tree acreage, 715
ornamental annuals, 996
Caliroa limacina, fruit tree slug worm,
1950, 1997
Callistephus virus I, 932
Calluna vulgaris alportii, 967
Callus formation—
in kok saghyz, 276
in rose spp., 276
Calocarpum mammosum, host of *Anastrepha serpentina*, 1406
Calonectria rigidiuscula in cacao, 2335
Calostilbe striospora, a disease of cacao
shade trees, 473
Calotermes rainbowi termite attacking
coconut, 1135
Camellia flower blight (*Sclerotinia camel-
liae*), 1575
Camomile, fertilizer trials, 260
Campden Fruit and Vegetable Preservation
Res. Stat. A.R. 1945, 2322
Camphor production—
in East Africa, 1126
in Russia, 2058
synthetic, 577
Canada—
apple storage, 2248
dehydration of fruit and vegetables,
1655, 1670, 1671, 1689e
fruit—
growing, 1702

Canada—fruit (*continued*)—
storage, 1654
lilies for gardens in, 388
Minister of Agriculture for Dominion,
A.R. 1944/45, 1212
National Research Council, A.R. 1944-
45, 551
ornamental shrubs and climbers, 373
rose growing, outdoor, 1570
Science Service Dep. Agric. Report
1944/45, 1705
small fruit growing, 701
strawberry growing, 1865d
Canadian Committee on Food Preserva-
tion, 1654
Canavalia ensiformis, jack bean, 2152a
Candelilla wax, 869
Canning—
botulism, 535, 537
corrosion of cans, 2285
fruit and vegetables in Baluchistan, 1658
hydrogen swells, 2286
material handling, 2282
pea, maturity test, 2283, 2284
peach, 1655
pear, 1655
plum, 1182
prunes, 1655
retort operation, 1659
sealing of tins, 533
soybean, 2140
spoilage by *Clostridium pasteurianum*, 536
stone fruit, 1655
storage of vegetables for, 1652
tomato or tomato juice, 327, 568, 1527,
1655
Cantaloupe—
powdery mildew, 946
seedlings, aphid and downy mildew
resistance, 918
vitamin C content, 1655
Cantharellus cibarius, a source of vitamin
PP, 358
Cape Flats, vegetable growing, 206
Cape gooseberry (*Physalis peruviana*), 706
Capitophorus fragariae, 546, 1890, 1891
Capnodis beetles, 1717
Caproic acid, a Japanese beetle attractant,
2010j
Capsicum annum, 341, 1481
Caraway (*Carum carvi*) growing in
Czechoslovakia, 1556
Carbohydrate—
metabolism, potassium, sodium, calcium
affects, 1254
nutrition affects hypocotyledonary buds
in flax, 2152d
in pineapple affected by potassium, 489
Carbon—
dioxide—
around leaves of *Coleus* cuttings
improves rooting, 2331
and root absorption, 34b
: nitrogen ratio in green manures, 1076
Carboxylase—
activity in jack beans and soybeans, 2152a
content of ripening fruit, 2253
Cardamom mosaic, 1102
Carica papaya, 476, 2196, 2292
Carnation—
cuttings, 1714, 2156
disease—
resistance, 1714
studies at Aalsmeer, 360

Carnation (*continued*)—
mildew, 2162
stem rot (*Phialophora*), 361, 978
tetraploid, 408c
wilt diseases, 1569
Carob growing in Tripolitania, 1726
Carolus' tissue testing method, 2331
Carotene—
content—
of carrots, 287, 2262
of nettle leaves, 577
of Palestinian crops, 2261
of sweet potato, 1598, 1600
of turnip greens, 359a
estimation, 1165, 1181
extraction from green plant material,
1165
manganese does not affect formation of,
606
Carpocapsa pomonella—see Codling moth
Carpodiplois papaveris, oil poppy pest,
359g
Carposina adreptella, raspberry bud moth,
796, 797
Carrot—
aphids, 225
carotene content of, 287, 2262
cloche cultivation, 2031
dehydration, 1655
diseases, 1347
enzyme content of, 2265
fly, 290, 892-894, 2082, 2083
growing in Norway, 1221, 1223
manuring, 2037
mineral deficiency, 1870
nutrition, 2080
roots, anaerobic respiration, 1756
seed—
machine for rubbing, 288
production—
in Italy, 2081
in Russia, 285, 289
storage of roots for, 1655v
transplanting roots for, 2081
storage, 289, 1655v
top : root ratio, 2080
varieties, susceptibility to carrot aphid,
225
vernalization, 286
virus diseases, 891
Carthamus—
lanatus, 2054
tinctorius, 261
Cassava—
cuttings, 569
growing—
in Belgian Congo, 1073
in Puerto Rico, 1072
pests, 431
preparation, 1073
races in Ceylon, 2207
Cassia occidentalis, a coffee substitute,
1633
Castor bean—
grey mould (*Sclerotinia ricini*), 856
growing—
on coffee estates, 2213
in Russia, 2050
in U.S.A., 856-858
seed disinfection, 2051
seedling blight, 2051
a shade tree for coffee, 463
Catalpa bignonioides, 378
Cathode layer arc method, 1224

SUBJECT INDEX

- Cauliflower—
aluminum toxicity, 1766
black beetle, 226, 234, 2098
growing in England, 2096
interplanted with tomatoes, 329
manganese toxicity, 1766
mosaic, 1885
Myzus persicae, 2097
nitrogen manuring, 1516
seed storage, 1260
thrips, 2097
varieties for North Russia, 1515
worm, 2097
- Cavariella* spp., 225, 809
- Cawthron Institute—
A.R. 1944/45, 1213
Silver Jubilee, 1231, 1232
Cedar wood for boxes, 640
- Ceciba pentandra*, a host for cacao capsids, 2335
- Celeriac leaf spot, 314
- Celery—
Alternaria seedling disease, 1348
calcium and potassium deficiency, 1873
growing in Belgium, 313
plant bug (*Lygus campestris*), 1714
seed-borne diseases, 2019
- Cell—
defensive reaction of, 655g
shape, 34g
- Cellar, air-cooled for fruit and vegetable storage, 507, 508
- Celtis australis*, nettle tree, 1580
- Cephaeleuros parasiticus*, red rust of tea, 555
- Ceratitis capitata*, Mediterranean fruit fly, 1271
- Ceratonia siliqua*, locust bean, 1726
- Cerastostomella paradoxa*, pineapple disease 1643
- Cercospora—
beticola, 308
bolleana, 1347
leaf spot of peanut, 486
musae, 448
sesami, 1486
- Ceresan for seed disinfection, 1552
- Cerasus laurus cerasus*, 1940
- Ceutorhynchus—
assimilis, 2100
quadridens, 359h
spp., 905
terminatus, 1557
- Ceylon—
cassava races, 2207
Dir. Agric. Administ. Rep. 1943 and 1944, 552, 2323
fruits, seasonal distribution of, 480
garlic growing, 491
mango growing, 2233
medicinal plants, 2226
mulberry growing, 492
sericulture, 492
- Chalaropsis thielavioides*, black mould of rose, 1572
- Chamaecyparis* cuttings, 975
- Chamaerops humilis*, a fibre plant, 1476
- Champagne, nitrogenous substances in, 1171
- Charcoal and compost added to clay soil for tomatoes, 2331
- Cheliroline, an antibiotic, 1968
- Chenopodium album*, 518
- Cherimoyer—
growing in Chile, 2184
- Cherimoyer (continued)—
rootstocks for, 2330
- Cherry—
Alternaria rot, 1428
Armillaria root rot, 747
bacterial canker (*Pseudomonas mors prunorum*), 1895
bird, infected by *Polyporaceae*, 152
brown rot (*Sclerotinia* spp.), 1907
buckskin disease, 143
bud opening, growth substances retard, 1715
classification, 1280
cracking and decay, 99c
crop related to weather, 659
decay in transport, 1424
dehydration, 528, 1675
drying by helicopter, 1867
flat-celled shot borer (*Xyleborus saxe-seni*), 1912
frost—
damage, 1337
resistance, 1212, 1343
fruit fly (*Rhagoletis* spp.), 167, 568, 1404, 1718
fungicides, new, 1430
growing—
in Holland, 41, 1782
in the Leningrad area, 1281
in Russia, 2298
in Switzerland, 659
hardy, in Canada, 1212
hydrocooling, 99c
interplanted with apple, 1782
laurel, 1940
leaf—
hopper, 2010d
spot (*Coccomyces hiemalis*), 1428, 1985
manuring influences bacterial canker, 1895
Montmorency—
browning not retarded by growth substance spray, 1832
dehydration, 1675
morello, manuring, 83, 559
moth (*Argyresthia ephippiella*), 784
ornamental, spray injury, 408f
phosphate deficiency, 568
pollination, 61, 676-678, 1713
potassium deficiency, 568
quality standards in Switzerland, 1844
regrafting, 1818
rock, 2172a
rootstocks—
Antipovka, 1343
bacterial canker influenced by, 1895
in Denmark, 1811
and frost resistance, 1343
mahaleb, 60, 1212, 1292
mazzard, 60, 1212, 1292
sour cherry, 1343
steppe cherry (*Prunus chamaecerasus*), 1343
Stockton morello, 1292
shot hole borer (*Anisandrus dispar*), 1912
slug worm, *Caliroa limacina*, 1950
soils in Switzerland, 568
spray injury, 1428
storage, frozen pack, 2269
varieties—
Merton—
Bigarreau, 1713
Heart, 1713
- Cherry—varieties (continued)—
Mičurin, 1281
Van, 1212
viruses, 144, 741, 742, 1354
wart virus transmission from peach, 142
winter moth, 1912
yellows virus, 1354
- Chervil—
growing in Belgium, 292
photoperiod, 1223
- Cheshunt exp. Res. Stat. A.R. 1944, 1706
- Chestnut—
Armillaria root rot, 1390
blight resistance, 123, 1324
breeding, 1324
growing—
in France, 1325, 1390
in Portugal, 1864
ink disease (*Phytophthora cambivora*), 1390, 1864
leaves as a source of tannin, 124
pests and diseases, 1325
- Chiasmotypy, 600
- Chicory—
forcing, 315, 1208
Sclerotinia diseases, 316
- Chicozapote (*Achras zapota*), 552, 1406
- Chile—
avocado, cherimoyer, fig and peach growing, 2184
bean weevil distribution, 2134
citrus growing, 2184
Fusarium spp., 1910
olive pests and diseases, 2184
- Chloride—
injury to pecans, 1334
nutrition affects organic acid and rubber formation, 603
soluble, estimation in soil, 619
- Chlorine influence on plants, 23
- Chlorophyll—
accumulation, rubber accumulation related to, 887
in apple leaves, 66
content and iron, 67
determination, 604
essential to stock-scion union, 647
- Chlorosis—
and iron deficiency, 130, 418
iron injections for, 1333
lime induced—
of fruit trees, 131, 1333
of vines, 2320
in lupins, 646
in tomatoes, 929, 2120
- Choco (*Sechium edule*), 431
- Chondrodendron tomentosum*, source of tube-curare, 2060
- Chortophila antiqua*, 229, 903, 1512
- Chromosome numbers—
in *Cinchona* spp., 476
in *Ilex*, 2242a
in oil palm (*Elaeis guineensis*), 476
in papaya, 476
- Chrysanthemum—
breeding, 1694
cuttings, 2156
hot water treatment for eelworms, 366
varieties, Blanche Poitevine, 984
- Cicadella stellulata*, 2010d
- Cicer arietinum*, 1144, 1145
- Cichorium endivia*, 317

Cider—

fruit on bush trees, 1787
making, 2270, 2271

Cinchona—

alkaloid—
content, 566, 2242d, 2323
determination, 493b, 552
preparation, 1192a
cover crops, a pest of, 477
cuttings, 2323
grafting, 2323
growing—
in the Belgian Congo, 1113
in French Guinea and Ivory Coast,
1080
in Java, 541
in Peru, 442
in Puerto Rico, 1112
in Russia, 2038
leaf composition, 1637
pests and diseases, 556, 1112
rootstocks, 2323
spacing, 2332
spp., chromosome numbers, 476
succirubra, 1637, 2323

Cineraria root rot (*Phytophthora* spp.),
1577

Cinnamomum—

camphora, 1126
essential oil, 1721

Cistus spp., 2158

Citriivir peritinae virus, 2180

Citronella manuring, 552, 2323

Citrus—see also particular citrus fruits—

ascorbic acid assay, 1163
bactericides from, 577
bergamia, 410
black pit (*Phytophthora syringae*), 1033
boron—
content affected by rootstock, 420
deficiency, 419, 420
brown rot, 424
budding, 1007
by-products, 1192b
canker, 1225
cover crops, 622, 1004, 1055a
damping off, 1034
decline in California, 1588, 1589
diseases in New South Wales, 423
die-back diseases, 1220
essential oils, 1683, 1684
exanthema, 424, 552
foot rot (*Phytophthora* spp.), 426
frost—
damage—
to fruits in Palestine, 2179
prevention, 1028
resistance, correction of mineral
deficiencies increases, 1014

fruit(s)—

colouring, 2327
nomenclature, 1002
surface and volume determination of,
441

growing—

in British Guiana, 2321
in Chile, 2784
in Puerto Rico, 1003

growth—

study of, 1582
substance test, 1771i
gummosis, 425, 1036
harvesting, 1045, 1055a, 1696
irrigation, 1017-1020, 1587, 1591

Citrus—see also particular citrus fruits

(continued)—

juice—

physicochemistry of, 1689b
storage frozen pack, 2278
volume measurement, 1173
magnesium deficiency, 413
manganese deficiency, 1055d
manuring, 409, 622, 1004, 1014, 1027,
1055a, 1220, 1585, 1586, 2327
marketing, 1045, 1055a
mineral deficiencies, 1014, 1590
moth, 1722
mottle leaf, superphosphate increases,
1586
packing, 1696
pectin, 2281, 2288, 2320
peel industry, brined, 2293
pest control, 806, 1037, 2327
pruning, 421, 1004, 1021-1024, 1055a,
1055b
psorosis, 1032
psyllid, 562
root growth, 1582
root rot, 2181
rootstocks, 409, 426, 505, 552, 565, 569,
1007, 1010-1013, 1588, 1589, 1597,
2173

rootstock(s)—

in Argentine, 1597, 2181
in Brazil, 2174
gummosis-resistant, 2332
in Nigeria, 2332
and quick decline, 1588, 1589
root rot resistance, 2181
-scion influence, 2173
seedling, raising of, 1007
sour orange in South America, 1013
in Trinidad, 2334
saline soils affect, 1027
salt and seepage problems, 1055a
scale, red, control—
biological, 1039, 2187, 2320
by fumigation, 1040, 1041, 2187
by spraying, 1044, 2185, 2186

soil—

acidity corrected, 413
alkalinity corrected, 1590
management, 1591

spray injury, 428, 429

stem end rot, 2327

suntara, 1594

storage—

gas, 2250
general, 505, 2250, 2327
thrips control, 427, 1038, 1044
weed control, 1591, 1595
wood necrosis, 425
zinc deficiency, 1044, 2178

Cladosporium—

fulvum, 332, 750, 935
herbarum, 1346, 1649

Clary (*Salvia sclarea*) growing in Italy, 1479

Classification of horticultural plants aided
by genetics, 585

Claviformin, an antibiotic, 1968

Clay, colloidal, as a plant growth medium,
1739

Clematis transplants, *Rhizoctonia solani* (?)
disease of, 985

Climate—

in apple orchard, grower determines, 663
of Central Congo Basin, 1230a
laboratory of artificial, 578

Climate (continued)—

vitamin C content of oranges affected
by, 1583
Climbers, rapid growth in Palestine, 217
Clitocybe tabescens, 747
Cloche(s)—
cropping, continuous, 1699, 2029, 203
electric soil heating in conjunction with,
2028

Clostridium botulinum, 535, 537, 2320

Clove—

a bactericide from, 577
inarching, 2330
manuring, 569
research in Zanzibar, 1615
shade trees for, 2336
wind breaks for cacao, 2336

Clover, sweet, wound tumour virus,
1886

Club root control, 237, 905

Clysia ambigua—see *Cochylis ambigua*

Cnephasia wahlbomia, 408d

Cobalt in soils and plants, 34j

Cobnut—see also Filbert and Hazel—
growing in Kent, 125

Coccarboxylase content in ripening fruit,
2253

Coccomyces hiemalis, 1985

Cochylis ambigua, 561, 568, 1331, 1413,
1413, 1945

Cockchafer control, 182, 185, 1978

Cocoa Research Conference, London 1945,
553

Coconut—

bronze leaf wilt, 2236
caterpillar, 552, 2323
growing—
in Brazil, 487
in British Guiana, 2321
in India, 1220
in Jamaica, 1134
in the Seychelles, 1721
in tropical America, 488

hurricane damage, 1712

milk, vitamin content, 522

pests, 487

termite control in, 1135

"unknown" disease, 2236

Cocoyam root rot, 458

Codling moth—see also Apple, Pear and
Walnut codling moth—

control—
by DDT, 181, 783, 809, 1408, 1436,
1436, 1936-1938, 1997, 2320
general, 781-783, 1325, 1331, 1413,
1452d, 1718, 2328
hibernation, 1409
life cycle in Algeria, 1452g
warnings, 1331

Coffea spp. and varieties in Brazil, 2212

Coffee—

analysis, shade affects, 1626
Antestia bug, 1630, 1631
bean aspergilliosis, 2214
berry borer, 467, 1092, 1093, 1627
boron deficiency, 1218
castor bean, a subsidiary crop, 2213
compost for, 1724
copper deficiency, 1218
cover crops, 1083, 1086
cuttings, rooting of, 1625
cytology, 1077, 1078, 2212
Dasus simplex pest, 468
Elgon die-back disease, 2211

SUBJECT INDEX

- Coffee (*continued*)—
flower abortion caused by *Volumnus obscurus*, 1628
growing—
in Brazil, 459, 1083, 1094, 2212
in British Guiana, 2321
in Costa Rica, 1624
in French Guinea and Ivory Coast, 1080
in India, 1090
in Kenya, 1082
mechanized, 566
in Nigeria, 2332
in Uganda, 566
harshness, *Fusarium concolor* causes, 1089
Hemileia-resistance in Indian strains of, 1090
humus from shade plants, 464
irrigation, 1724
manganese deficiency, 1218
manuring—
green, 466
organic, 1087, 1088
trials, 1218, 1724
mealy bug (*Pseudococcus kenya*), 1091, 1146b
mulching with elephant grass and other material, 566, 1085, 1724
nitrate utilization, 1626
Omphalia flavid disease, 1627
pests and diseases, 556, 1146b
processing, 2294
pruning, 461, 556, 1724
pulp as organic manure, 1087, 1088
Res. Stat. Lyamungu, Moshi, Tanganyika, A.R. 1944, 1724
seed, radiation injury to, 460
shade—
composition affected by, 1626
requirements, 1218
trees for, 463, 556, 566, 1082, 1083, 1094
soil erosion, 465
spraying implements, 1084
substitutes, 1633
thrips, 1629
transplanting, 462
varieties—
Bourbon, 1724
in Brazil, 2212
Kent, 1079, 1724
weed control, 1081, 1084
Coix lachryma jobi, 556
Colchicine treatment—
of coffee, 1077
of cranberry, 108
for crown gall, 147
of hazel, 1862
of kok saghyz, 272
of tobacco, 255, 1225
Coleus cuttings, Co_2 around leaves improves rooting, 2331
Colletotrichum—
agave, 1562
circinans, 1511, 1973
coffeanum, 556
lilii, 1565
indemuthianum, 943
lini, 262
linicola, 1219
Colorado beetle—
emergence, 1473
in France, 1470-1475
in England, 2024
Colotois pennaria, 1912
Colour—
change in hydrangea, 2163
of flower, soil conditions affect, 1206
Colouring—
of citrus fruit, 2327
premature autumn, 141
Coluria geoides, a medicinal plant, 2058
Colza—
pests, 2052
spp. in Punjab, 1483
Compatibility, self-, in fruit trees, X-rays induce, 1812
Compost—
and charcoal added to clay soil for tomatoes, 2331
for coffee, 1724
for cyclamen, 401, 549
from green manure for tea estates, 1076
Indore method modified, 1264
lignite, 655i
microbiology, 1224
for mushrooms, 1718
from peat for vegetable production, 208
potting, pH value and lime requirements of, 1224
quick return method, 1196
production in Costa Rica, 1060
for seedlings, 1713
for tomato, 1706, 2331
from town wastes, 1264, 1306
Congo—*see also* Belgian Congo—Basin, Central, climate and ecology, 1230a
Coniopteryx tineiformis, 1912
Coniothyrium—
diploidiella, 561
hellebori, 2063
wilt of roses, 2161
Conotrachelus nenuphar, 1930
Contarinia—
pyravora, 1405, 1931
torquens, 229, 307, 905
Contour planting—
in conjunction with mulch crops, 2328
of vegetables, 2013
Convolvulus arvensis, 169
Copper—
complex formation in pea seed disinfection, 961
deficiency—
in beans, 1877
in coffee, 1218
in kok saghyz, 273
in peas, 1877
in peaty soils, 273
in Swedish crops, 1874
in tung, 437, 2189
enzyme poisons affect soil nitrification, 1771d
and plant growth, 34m
translocation in plants, 1253
Copa production in tropical America, 488
Corhormone, 1241
Corchorus spp., jute, 1619
Corn salad, photoperiodism of, 1243
Corticium—
album, 2183
galactinum, 747
invisum, 1710
morsum, 555
Corylus—
avellana breeding, 1862
columna, hardness of, 584
Corynebacterium flaccumfaciens, 945
Coryneum—
cardinale, 1347
foliticolum, 1350
peach disease, 1908
Cosmopolites sordidus, 1617
Costa Rica—
coffee growing, 1624
compost production, 1060
Manila hemp growing, 1620
okra growing, 1142
Côte de Fronton vineyards and wines, 1326c
Cotinus coggygia, a source of tannin, 864
Cotoneaster horizontalis, insect pest of, 379
Coumarin for inducing seed dormancy in lettuce, 312
Council of Scientific and Industrial Research Australia, A.R. 1944/45, 2320
Court noué—*see* Vine, court noué
Cover crops—
apple, 1781
citrus, 622, 1004, 1055a
coffee, 1083, 1086
and frost damage, 734, 1878
oil palm, 2332
orchard, 689, 734, 1307, 1308, 1781, 1878
peach, 1308
pecans, 2327
Petty Plow for turning in, 1702
tung, 1048
Cowpea—
for green manuring, 1059
leaf spot (*Helminthosporium*), 354
Crab apple—
hybrid, ornamental, for Canada, 381, 665
as rootstocks, 1213, 1715, 1806, 1807, 2328, 2330
Cranberry—
-Blueberry Laboratory, Washington, 1727
colchicine treatment induces polyploidy 108
false blossom virus, 145
juice fortification, 2277
pests, 1714
winter killing of, 1714
Crataegus—
pyracantha, 1365
sanguinea, 1286
Cress, garden, photoperiodism in, 1243
Cricanema rusticum on vines, 568
Crocidolomia binotalis, 1997
Cronartium ribicola, 1349
Crop—
analysis methods, 1741
rotation for eelworm control, 2021
Crotalaria agathifolia, a cover crop of cinchona, 477
Crowfoot grass (*Eleusine indica*), herbicides control, 1070
Crown gall (*Bacterium [Pseudomonas] tumefaciens*)—
of apple, 747, 1897
colchicine treatment for, 147
general, 611, 745
poplar, a host of, 200i
of sunflower, 1240
Crucifer(s)—
extracts, bactericidal action of, 1973
a new virus of, 1466
Cryodesiccation, 1673, 1674

SUBJECT INDEX

Cryptostegia grandiflora rubber, 1191, 2070-2072
 Cuba, medicinal plants, 1700
 Cube growing in Peru, 2203
 Cucurbit—
 anthracnose, 1525
 boron deficiency, 337
 under cloches, 2030, 2031
 frost protection of young plants, 1221
 Fusarium diseases, 920
 under glass, 919
 grafting, 2110
 growing—
 in Holland, 1524
 in Palestine, 1523
 in Siberia, 826
 in Sweden, 1524
 hybrids for increased yields, 324
 light treatment of, 577
 manuring, 325, 2092
 morphological characters related to economic value, 326
 mosaic, 1352
 powdery mildew, 946
 seed, heat treatment of, 319
 slime fungus (*Fuligo*) on, 2111
Cucumis virus, 915
 Cucurbit—
 fruits, relation of growth to size, 318
 grafting, 649
 seed production in Russia, 827
 seedlings, aphid resistance of, 918
 spp., domestication of, 2106
 Cukra Hill Research Station, Nicaragua, 1056
 Cultivated plants, origin of New World, 1266c
Curculionidae, injurious, 1068
 Currant—see also Black currant
 breeding in Russia, 702, 1316
 brown scale (*Lecanium cornii*) on, 2100
 golden, 746
 growing in Russia, 2298
 leaf spot (*Pseudopeziza*, *Mycosphaerella*), 762
 rust, 1349
 Septoria leaf spot, 763
 vine, growing in S. Australia, 716
Cuscuta—
 parasitism increases growth substance content, 610
 virus transmission studies, 145
 Custard apple—see Cherimoyer
 Cuttings—see also particular crops—
 growth substance(s)
 cum fungicidal treatment of herbaceous, 2156
 rooting stimulated by, 3, 5, 361, 372, 548, 561, 614-616, 971, 973, 974, 977, 1242, 1714, 2044, 2156, 2335
 spraying with, before taking, 4
 vitamin C content of bark increased by, 1685
 immersion in water favours rooting, 975
 soil pH affects rooting, 967, 970
 technique of striking, 48
 from wet plants, 976
 of woody plants, 1
 Cyclamen—
 Cylindrocarpon not pathogenic to, 997
 diseases, 360
 C. persicum breeding, 1567
 seed treatment, 361
 soil requirements, 401, 549

Cyclamen (continued)—
 state inspection in Holland, 2170
 yew beetle on, 361
Cydia—
 molesta, 1997
 pomonella—see Codling moth
Cylindrocarpon—
 radicicola, 983
 spp. not pathogenic to cyclamen, 997
Cynodon dactylon, 1070
 Cyprus—
 Dep. Agric. A.R. 1944 and 1945, 554, 2324
 fruit—
 stations, 2324
 variety trials, 554
 Daffodils, dwarf, 1566
 Dahlia—
 leaf spot (*Entyloma*, *Phyllosticta*), 2169
 mosaic, 2171
 Damping off—
 of apple, 747
 of beets, 731 (v)
 of citrus, 1034
 delay in watering checks, 2127
 of peas, 731 (v)
 physiogenic, 731 (v)
 of spinach, 731 (v)
 of tomatoes, 731 (v)
 Danish Horticultural Association A.R. 1945, 2325
 Dano compost, 1306
Daphne—
 cuttings, 2331
 mezereum, virus disease of, 986
 Darkness unnecessary for plant development, 1243
 Darwinian meeting of Lenin Acad. agric. Sci., 647
Dasus simplex, 468
Dasycaapus parvipennis, a parasite of cacao thrips, 1617
 Date—
 Deglet Noor—
 checking of fruits, 1506
 irrigation, 1606
 soil moisture affects leaf and fruit growth, 1605-1606
 dying in Haiti, 2236 ✓
 growing in U.S.A., 438 ✓
 offshoots in the nursery, 440 ✓
 varieties, a monograph needed, 439 ✓
Datura—
 grafting, 1468, 1706
 stramonium inermis manuring, 2062
 DDT—see also Sprays, DDT—
 effect on plant cells, 1713
 smoke from paper impregnated with, 2004
 as soil disinfectant, 226, 231, 234, 2098
 wood impregnation for termite control, 2003
 Deer damage to fruit trees and vines, prevention of, 171
 Deficiency—
 boron, 128, 129, 200a, 249, 283, 284, 337, 419, 420, 608, 738, 939, 1218, 1335, 1501, 1601, 1611, 1706, 1760, 1873, 1874, 1883, 2068
 calcium, 1766, 1873
 copper, 273, 437, 1218, 1874, 1877, 2189
 iron, 418, 1706, 1873

Deficiency (continued)—
 magnesium, 132-134, 200h, 413, 929, 1213, 1706, 1714, 1873, 1876, 2119, 2120, 2193, 2331
 manganese, 135, 283, 881, 1218, 1252, 1706, 1871 1874-2146
 mineral—
 in agricultural crops, 1870
 in apple, 684
 in cacao, 1229
 in carrots, 1870
 in citrus, 1014, 1590
 diseases in U.S.A., 127
 in fruit trees, 1870
 guttation in tomato caused by, 2115
 in kok saghyz, 359c, 881
 in peas, 1870
 in potato, 2038
 quick method of producing, 1873
 in Swedish crops, 1874
 tissue tests, 2038
 in vegetables, 1873
 molybdenum, 27, 881, 1766
 nitrogen, 1873
 nickel, 1251
 phosphate, 568, 629, 1873
 potassium, 115, 568, 623, 1323, 1873, 1875, 1898
 sulphur, 136
 uranium, 881
 zinc, 137, 437, 608, 1044, 1251, 2178
 Degeneration caused by virus infection, 370
 Dehydroascorbic acid content—
 of apples, 1685
 of cabbage, 1685
 Dehydration—see also under particular objects—
 of fruit, 527, 557, 558, 1176-1179, 1655, 1671, 2327, 2331
 of fruit and vegetables in Canada, 1655, 1670, 1671, 1689e
 at low temperature, 1673, 1674
 of vegetables, 1176-1179, 1181, 1655, 1669-1674, 1689e, 2327
 Delaware agric. Exp. Stat. A.R. 1944/45, 1707
Delphinium brownii, a medicinal plant, 861
 Denmark—
 vegetable growing, 1193, 2325
 rootstocks for fruit trees, 1811
 spray apparatus testing, 792
 Derris—
 clone evaluation, 2201
 growing in Peru, 442
 roots, rotenone content of, 178, 2201, 2202
 top-root relationship, 817
 translocation in plant, 1991
 varieties, 2202
 Desert flora, origin of, 587
 Dewberry—
 growing in Georgia, 1709
 -Nessberry hybrids, 1725
 Dextrose determination in fruits, 69
Diaporthe sp. on apple, 1350
 Diastase, growth substances affect, 655c
Dichroa febrifuga, a medicinal plant, 149
 Dictionary—
 English-Russian, 1195, 1693
 Russian-English, 1194
 Russian, of vine growing, 2315
Didymella—
 applanata, 758
 lycopersici, 1532, 1706

SUBJECT INDEX

- Dielectric properties of plant materials, 1266f
- Digitalis purpurea*, a medicinal plant, 1489
- Dill, *Ceutorrhynchidius terminatus* weevil on, 1557
- Dioscorea alata*, 1074
- Diospyros lotus*, a rootstock for kaki, 1284
- Diplodia*—
 natalensis, 1510
 spp., 155
 zeae, 1552
- Dipsacus fullonum*, a fibre plant, 964f
- Directory U.S. Dep. Agric., 1230i
- Disease(s)—*see also individual diseases and hosts*—
- Control Centre, Pavia, 1328
- control—
 in England, 1866
 of fruit in England, 1329
 by inorganic soil amendments, 731 (vii)
 by microbial antagonism, 731 (iii)
- development in relation to soil management and nutrition, 731 (vi)
- dissemination by air-borne and insect-borne inoculum, 1869
- host index, 748
- incidence, soil temperature, moisture, aeration and pH affect, 731 (iv)
- in-New South Wales, new plant, 749
- nutritional, in U.S.A., 127
- of ornamental plants, 1560
- resistance in tomato, 923
- seed transmission in vegetables, 127
- soil-borne, 731 (ii)
- Distantiella theobroma*, 1229, 2335
- Dithane for soil sterilization, 1533
- Dodder—*see Cuscuta*
- Dolichos lablab* parasitized by witchweed, 1539
- Dolomitic marl, ground, a dust carrier, 1435
- Dominica Dep. Agric. A.R. 1944, 1230b
- Dorialis fabae*—
 and DDT, 1997
- a virus vector, 402, 405
- Dormancy—
 breaking—
 in pea seed, 643
 of potato, 1717
 in pumpkin seed, 323
 in sunflower seed, 643
 of woody plants, 598
- coumarin induces seed, 312
- growth substances prolong potato, 8
- Dothidella ulmi*, 2229, 2230
- Douglas fir gall, 745
- Drainage, tile, 1310
- Drawing to scale, apparatus for, 1731
- Drosicha stebbingi*, 1067
- Brought—
 forecast and meteorological records, 861
- resistance, growth substance affects, 1771g
- Drug plants—*see Medicinal plants*
- Drumstick (*Moringa oleifera*), vitamin C content of leaf, 1104
- Dry matter accumulation, growth substance affects, 1747
- Drying, helicopter for cherry, 1867
- Euboisia* spp.—
 alkaloid content, 269, 2057, 2320
- propagation, 268
- ung handling, 1226
- Dust(ing)—*see also Sprays*—
 from aeroplane, 1716
- carrier problems, 1435
- coverage of insecticidal, 793
- DDT—
 as seed disinfectant, 949
- as soil disinfectant, 226, 231, 234, 2098
- diatomaceous diluents, 2131
- dilutents for calcium arsenate, 2135
- with electrified particles, 1422
- growth substances applied as, for cuttings, 616
- with hand duster, 1885
- by mortar shell, 176
- wetted, applied by spray-duster, 1716
- Dwarf—
 pyramid, 76, 568, 1786, 1788, 1809 1834
- tree production by approach grafting, 673
- East Africa, camphor production, 1126
- East Malling Research Station A.R. 1945, 2326
- Ecballium elaterium*, a medicinal plant, 866
- Ecology of Central Congo Basin, 1230a
- Ecuador—
 bamboo cultivation, 457
- cinchona alkaloid content, 2242d
- Eelworm—*see Nematodes*
- Egg plant—
 bacterial wilt resistance, 2128
- growing in Brazil, 340
- wilting of, 341
- Éire Minist. Agric. A.R. 1945, 2337b
- El Cero Research Station, Nicaragua, 1056
- Electric soil heating, 315, 633, 635, 639, 1208, 2027-2029
- Electricity for blanching vegetables, high frequency, 1159
- Electrogenetics, 1257
- Electrophoretic virus studies, 1352
- Elettaria cardomum*, a mosaic disease of, 1102
- Eleusine indica*, weed killers for, 1070
- Elsinoë—
 piri, 1903
- rubi*, 796
- Empoasca fabae*, 486, 951
- Empusa grylli*, 454
- Emulsions, cream, as carriers for growth substances, 1744
- Encarsia formosa*, a parasite of white fly, 223
- Endive varieties in Holland, 317
- Endosperm produces hormone, 589
- Endothia parasitica* on chestnut, 1324
- England—*see also particular areas and Great Britain*—
 apple growing, 1274, 1276, 1783-1785, 2316
- black currant growing, 100
- cabbage and brussels sprouts growing, 2091
- cauliflower growing, 2096
- Colorado beetle in, 2024
- disease and pest control, 1329, 1866
- maize growing, 962
- market gardens, small, 2011
- melon growing, 320, 2030
- pea growing, 956
- pear growing, 1783, 1784
- rhododendron cultivation, 377
- England—*see also particular areas and Great Britain (continued)*—
 root vegetable growing, 2077
- small fruit growing, 1846
- sunflower growing, 859, 1695
- walnut varieties, 1859, 1860
- Enterolobium contortisiliquum*, root buds of, 1245
- Enteromorpha*, composition, 1491
- Entyloma dahliae*, 2169
- Environment control in plant experiments, 1761
- Epigaea repens*, seed production, 408a
- Epilachna varivestis*, 349, 1994
- Epsom salt for magnesium deficiency, 1706
- Erannis leucophaearis* on apple, 1912
- Erica* cuttings, 976
- Ericaceae*, ornamental species, 965
- Eriobotrya japonica*, scab, 1346
- Eriochiton amygdalae*, 724
- Eriodendron* spp. as fibre plants, 1071
- Eriophyes vaccinii*, 1917
- Eriosoma lanigerum* on cotoneaster, 379
- Ergot fungus, alkaloid formation by, 1452h
- Eruca sativa*, mustard oil content, 1482
- Ermine moth, small, on *Euonymus*, 2100
- Erwinia amylovora* on pear, 747
- Erysiphe*—
 cichoracearum, 1576
- polygoni*, 946
- polygoni viciae pisi* f.n., 1538
- Erythrina glauca* as a cacao shade tree, 473
- Espalier training, 77
- Essential oil—*see Oil*, essential
- Ethyl alcohol formation in ripening fruits, 1248
- Ethylene—
 in atmosphere of stored—
 apples, 497-499, 2164
- citrus fruit, 505
- carboxylase content of fruit increased by, 2253
- chlorhydrine hastens graft union in rhododendron, 972
- physiological role in maturing fruits, 2256a
- for ripening tomatoes, 1238
- Eucalyptus—
 citriodora, 1604
- termites attack, 1111
- Eudemis—*see Polychrosis botrana*
- Eugenia*—
 jambos, fruits for jelly, 1183
- uniflora*, root buds of, 1245
- Eulophid* parasite of coconut caterpillar, 2323
- Euonymus*—
 ermine moth control, 2100
- spp., 577
- Euphorbia*—
 antisiphilitica, candelilla wax from, 869
- fulgens*—
 cuttings, 615, 616
- foot rot (*Fusarium solani*), 1579
- Euproctis phaeorrhea* on apple, 1411
- Eurhodope suavelia* on cotoneaster, 379
- Eurydema*, a cabbage pest, 905
- Eurytoma* spp., 1416
- Euschistus* spp.—
 life history, 2010q
- on peach, 1915
- Evea ipeacacuanha*, a medicinal plant, 475
- Evergreens in N. Jersey, 375

Factorial—
replication, 1771c
series analysis of insecticidal tests, 1989
Fagonia arabica root rot, 1616
Fallow compared with green manuring, 1059
Farming, a magazine of agricultural progress, 1708
Fennel—
photoperiod of, 1223
sweet, diseases of, 1347
Fermentation Industries A.R. 1945, 2337c
Feronia elephantum, rootstock for Chinese orange, 2330
Fertility determination in top fruit, 1295
Fertilization—see also Pollination—effect with gamete union, 600
Fertilizer—see also Manuring and separate crops—
distributors, the setting of, 652
humus, Nettolin, 16
lance, 685, 1299
placement, 212, 904, 1226
Fibre—
development in flax stem, 838
plants—see also particular plants—
aloe, 1225
Apocynum spp., 844, 1496, 1497
Boehmeria spp., 848
Bromeliaceae, 2237
diss (*Ampelodesmos tenax*), 1476
dwarf palm (*Chamaerops humilis*), 1476
esparto grass (*Stipa tenacissima*), 1476
kapok, 1071
kenaf (*Hibiscus cannabinus*), 845-847
passerine (*Thymelaea hirsuta*), 1476
roselle (*Hibiscus sabdariffa* var. *altissima*), 850
Sansevieria spp., 849, 2327
in Tunisia, 1476
wild kendir (*Apocynum sibericum*), 844
Ficin, 1972
Ficus spp., lysozyme from, 1972
Field Experiments on Sugar Cane in Trinidad A.R. 1943, 570c
Fig—
alcohol from, 1726
diseases, 1346, 1347
drying, 550
gall flowers, 65
growing in Chile, 2184
varieties in Algeria, 671
Fiji, insect pests of, 1061
Filbert—see also Cobnut and Hazel—
growing—
in New Zealand, 1227
in Tripolitania, 1726
transpiration after bordeaux spraying, 800
Finland—
apple—
rootstocks, E.M., 1781
varieties—
Canadian, 1314e, 1796
Meiba, 1314e
fruit growing, 1781
horticultural research stations, 1781
pea trials, 1558f
Flavimacula ipomeae virus, 1046
Flax—
carbohydrate nutrition affects hypocotyledonary buds, 2152d

Flax (continued)—
disease—
resistance, 1219
trials, 2337d
fibre—
development in stem, 838
spoilage by bacteria and fungi, 251
structure affected by maturity, 246
foot rot, 250, 1219
growing—
in Montana, 964n
in Russia, 2041
harvesting, 840
Macrosporium disease, 841
manuring, 839
nitrate-nitrogen nutrition affects hypocotyledonary buds, 2152d
pollination, 837
rust, 248, 249, 1219, 2042
-seed diseases, 262
-seed—
disinfection, 2040
threshing injury to, 247
thrips control, 842
varieties, Wada, 2042
weed control, 790, 843
Flea beetle—
on brassicas, 2099
control, 1485, 2100, 2152e, 2152g
a vector of turnip yellow mosaic, 2079
Florida—
agric. Exp. Stat. A.R. 1944/45, 2327
new palms in, 1131
Flower(s)—
bud differentiation in azalea, 982
colour, soil conditions affect, 1206
cut—
gas storage, 2154
vacuum treatment under water improves keeping quality, 1000
formation—
of axillary buds in mango, 2234
in iris influenced by temperature, 396
growing—
in Denmark, 2325
in Missouri, 2172g
in Sweden, 1581a
micro-organisms in, 200d
Flowering—
nitrogen affects, 14, 596
photoperiod determines, 596
in sweet orange related to fruit set, 417
Flue dust produces sun scald of tomatoes, 928
Fluorescence in plants, 256
Fluorine—
injury to apricots and walnuts, 2009
in soils and plants, 341
Fomes spp. as parasites, 152
Forcing—
chicory, 315
strawberry, 105, 106, 1851
Forest—
clearance in Belgian Congo, 2199
litter, a source of bactericides, 2010m
Formaldehyde—
for seed disinfection, 298
for sterilizing soilless cultures, 1738
Forschungsergebnisse aus dem Gebiet des Gartenbaues, a Swiss journal, 567
Forsythia, nodules in, 1563
Fragaria vesca, virus symptoms on, 1890
Frame construction in Holland, 1462
Frameworking fruit trees, 674, 675, 1817

France—
chestnut growing, 1325, 1390
Colorado beetle, 1470-1475
fruit research station proposed, 39
fungicide trials, 1425
peach growing, 37
Peru oka growing, 1502
prune growing, 38
tomato varieties, 2113
vine growing, 1234, 1358, 1855
walnut growing, 1325
Fraxinus malacophylla, a medicinal plant, 2059
Freezia—
storage of tubers, 390
treatment for early flowering, 390
Freezing—see also separate crops under storage, frozen pack—
for fruit juice concentration, 2243
quick, for preservation, 538a, 1149-1151, 1155, 1218, 1273, 1655, 1660-1668, 2267-2269, 2278, 2289
French Guinea—
cinchona growing, 1080
coffee growing, 1080
Frost—
damage—
to apple blossom, 140, 1339
to cherry blossom, 1337
to citrus fruit—
in Palestine, 2179
pruning after, 1024
and cover crops, 734, 1878
to cranberries, 1714
to fruit trees in Russia, 544, 1880
to mulberries, 1340
to peaches, 138, 735
to rape, 258
to raspberries, 139
repair, 544, 1880
to vines, 1878
insurance in viticulture, 1338
penetration in soil, 822d
protection—
of citrus, 1028
by cover crops, 1878
of cucumber plants, 1221
of fruit trees, 734, 1716, 1881
by irrigation, 724, 1716, 1878
resistance—
in apple, 1342
in apricot, 1341
in cherry, 1343
in citrus, correction of mineral deficiencies increases, 1014
of fruit trees, effect of growth substances on, 1238
in peaches, 1257, 1341
in strawberry, 1707
in tomatoes, 922
warnings, 1336
Fruit(s)—see also individual fruits—
acetaldehyde and ethyl alcohol accumulation in ripening, 1248
acreage in California, 715
anhydration, 1179
berry, growing in Great Britain, 1698
1846
biochemistry, 2303
breeding by Burbank, 1694
candies, 1682
canning in Baluchistan, 1658
in Ceylon, seasonal distribution of, 480

SUBJECT INDEX

fruit(s)—*see also individual fruits (continued)*—
 deciduous—
Capnodis beetle a pest of, 1717
 growing at high altitudes, 568
 manuring, 81, 560, 683-685, 1840
 rootstocks, 568, 672, 673, 1845
 variety collections, 672
 dehydration, 527, 557, 558, 1176-1179,
 1655, 1670, 1671, 2327, 2331
 diseases, 547, 1227, 2010o, 2319
 dried, *Oryzaephilus surinamensis*, a pest
 of, 1417
 drop—
 conditions conducive to, 1827
 spraying to retard, 93-98, 694, 695,
 1311, 1312, 1714, 1827-1832, 2318
 fly—
 Mediterranean (*Ceratitis capitata*),
 1271
 Mexican (*Anastrepha ludens*)—
 control, 452, 2255
 hosts, 431, 1406
 food value of, 2257
 growing—
 in Australia, 1702
 in Canada, 1702
 in Cyprus, deciduous, 2324
 in Finland, 99d, 1781
 in France, 1234, 2317
 in Great Britain, 545, 2297, 2305
 in Guatemala, 2231
 in India, 1220
 in the Krasnodar Province, 670
 in the Kirov Province, 1773
 machinery, 1702
 in the Moscow district, 36
 in New Zealand, 1702
 in North Africa, 1270
 in Norway, 1777
 in Peru, 656
 in Russia, 36, 661, 670, 1773, 1774
 in River Murray Irrigated Fruit
 Areas, 572
 in South Tyrol, 658
 superstitions, 1776
 in Sweden, 1268, 1778-1780, 1845b
 in Switzerland, 657, 676, 1269
 in Tunisia, 1272, 1273
 juice—
 concentration by freezing, 2243
 light metal tanks for production of,
 2295a
 marketing—
 in Great Britain, 698
 in Nova Scotia, 1156a
 in Utah, 699
 micro-organisms in, 149, 200d
 moth, oriental, 1439
 pests, 543, 1716
 -piercing moth, 2323
 planting, manurial needs determine
 layout of, 662
 preservation—
 by freezing, *see below*, storage, frozen
 pack
 with sulphur dioxide, 525
 in Tunisia, fruit varieties for, 1273
 processing—
 domestic, 2288
 in Holland, 1157
 quality determination, 559
 research station in Normandy proposed,
 39

Fruit(s)—*see also individual fruits (continued)*—
 ripening related to seed development,
 602
 rots caused by *Diplodia* spp., 155
 set in sweet orange, 417
 standardization, 1313
 storage—
 air-cooled, 2244
 in Canada, 1654
 frozen pack, 538a, 1273, 1660-1668
 on ice, 1651
 subtropical, nomenclature, 1596
 tree(s)—
 boron deficiency symptoms and con-
 trol, 738
 evaluation, 1775
 frameworking, 1817
 frost—
 damage repair, 544, 1880
 resistance, 1238, 1341
 hare, rabbit and deer damage control,
 171, 787
 mineral deficiency, 1870
Monilia diseases, 1905
 nurseries in Sweden, 1293
 ornamentals among, 2172f
Rhynchites spp. as pests of, 1398
 pruning, 681, 1838, 1839
 raising, 1801, 2309
 spraying apparatus, 792
 stem borer control (*Indrabela*), 1594
 storm damage susceptibility, 733
Tettigoniella viridis, a pest of, 1396
 training—
 double palmette, 1836
 Oeschberg method, 1303, 1304
 spindelbusch, 76
 as wall tree, 77, 1314g
 transplanting, 1833
 in vineyards, 1853
 wounds, treatment of, 568
 tropical, growing in North Australia,
 2198
 utilization—
 in European countries, 1656
 in Switzerland, 1657
 varieties—
 for Algeria, 45
 identification by pendulum method,
 2317
 for Ohio, 1314c
 raised by Mičurin, 1199
 trials—
 in Cyprus, 554
 Wisley, 43
 wine—
 preparation, 558, 568
 production, 2295c
Fruits d'outre mer, a French periodical, 1711
Fuchsia cultivation, history of, 365
Fuligo sp. in cucumber house, 2111
 Fuller's teasel, manuring, 964f
 Fumigants—
 soil, applied by rototiller, 833
 volatile soil, 731 (viii)
 Fumigation—
 for ant destruction, 1063-1065
 of flower bulbs, 2327
 HCN, 227, 638, 771, 1040, 1041, 1450,
 1451, 1706, 2032, 2254
 methallylchloride, 995
 methyl bromide, 165, 500, 771, 822o,
 900, 1707, 2240, 2255

Fungi—
 edible—
 and poisonous, 963
 a source of vitamin PP, 358
 parasitic, physiologic specialization, 750
 pathogenic, excrete toxin, 563
 poisonous, 1201
 root infecting, 731 (i)
 spore—
 dissemination—
 by insect vectors, 1869
 by wind, 1349, 1376, 1869
 longevity, 1260, 1424
 Fungicides, *see* Sprays, fungicides, and
 Sprays, proprietary names
 Furrow opener, 680
 Fusarium—
 angustum, 920
 concolor, 1089
 culmorum, 1514
 lateritium, 1347
 in muskmelon, 321
 orthoceras, 759, 920
 oxysporum—
 f. asparagi, 1514
 —cubense, 1642, 2235
 f. lycopersici, 1533, 1534, 2123, 2124
 rot of peas, 960
 solani, 920, 1579
 spp.—
 in Chile, 1910
 in Finland, 200b
 urticarum, 1346
 vascular, of gladiolus, 992
 in water melon, 322
 wilt—
 of carnations, 1569
 of oil palm, 2235
 of tomato—*see also above*, F. oxy-
 sporum f. lycopersici—
 nutrition affects development, 2124
 resistance interpreted, 2123
 yellows in snap beans, 346
Fusicladium—*see also individual plants*
 under scab and Venturia—
 depressum, 1347
 diseases of Rosaceae, 1365
 eriobotryae, 1346
Galtonia, development of, 392
 Gamma moth (*Phytometra (Plusia) gamma*)
 2022, 2023
 Gammexane—*see also* Sprays, Gammexane
 for cockchafer larvae in root region of
 fruit trees, 1978
 effect on plant cells, 1713
Garcinia tinctoria as a rootstock for
 mangosteen, 2330
 Garden pebble moth (*Pionea forficalis*),
 2100
 Garlic—
 bactericide from, 577
 growing—
 in Ceylon, 491
 in Siberia, 826
 juice, 1689d
 yellow dwarf virus, 1509
 Gas—
 ant control by, 453, 1632
 insecticidal, 1434
 Gel, powdered, as vitamin carrier, 519, 520
 Genetics—
 an aid to plant classification, 585
 in the Soviet Union, 2302

Gentiana—
bernardii, crown rot, 1578
 seed germination, 364
 Georgia Exp. Stat. A.R. 1944/45, 1709
 Geranium cuttings, 1714, 2156
 Germany—
 apricot growing, 667
 raspberry growing, 704
 strawberry growing, 708
 Germination—
 2,4-D inhibits, 1749
 inhibitor in seed coat of cabbage varieties, 359e
 of weeds and soil conditions, 822f
 Gesapon—see Sprays, Gesapon
 Gesneriaceae, mottling, 369
 Ginger scrapings, essential oil from, 1187
Ginkgo biloba in the Ukraine, 989
 Gladiolic acid, fungicidal and bactericidal action, 1452c
 Gladiolus—
Botrytis rot, 406, 407, 993, 2166
 corm disinfection, 994
gandavensis, anthocyanins of, 2172c
 growing for vitamin C, 389, 514
 mosaic, 403
 scab (*Bacterium marginatum*), 2166
 smut, 1568
 storage for vitamin C preservation, 1687
 thrips, 404
 vascular *Fusarium* pathogenic to iridaceous plants, 993
 vitamin C from, 991, 1687
 Glasshouse—
 construction—
 and heating, a history of, 221
 in Holland, 1462
 Demonstration Station, Wilmington, 1526
 electric radiation a source of heat in, 635
 experiments, design of, 2026
 fumigation, 227, 638
 soil, straw for, 222
 sun a source of heat for, 632
 types of, 634
 warm water gun for watering, 636
 Gliotoxin, an antibiotic, 1968
Gloeosporium perennans, 1380
Glomerella cingulata, 493a
 Gloxinia—
 a pest of, 408d
 virus disease, 831
Glyptocelis squamulata on grapes, 1929
Gnorimoschema operculella, 450
Godetia hybrida—
 seed disinfectants tested on, 563
 susceptibility to fungus attack, 2333
 Gold Coast Dep. Agric. A.R. 1944/45, 1217
 Gooseberry—
 breeding in Russia, 702, 1316
 Cape (*Physalis peruviana*), 706
 leaf spot (*Mycosphaerella* and *Pseudo-pezzia*), 798
 powdery mildew, 798
 rust, 798
 sawfly, 785
 varieties—
 in Scania, 1268
Sphaerotheca, resistance to, 702
 vitamin C content of, 1161
 V moth (*Itame wauaria*) on, 1912
 Gorli seeds, 1099
 Goulburn Valley, pear fertilizer trials, 686

Gracillaria confervoides, a source of agar, 238
 Grafting—see also Frameworking and particular plants—
 approach—
 of herbaceous plants, 650
 of pome fruit, 673
 chlorophyll essential to union, 647
 cinchona, 2323
 at the collar following frost damage, 1880
 cross (Swerts' method) 1813-1815
 cutting of wood for, 49
 methods, 50, 649, 650, 674, 675
in vitro, 1240
 Gram—
 growing in Russia, 1145
 variety, Chafa, 1144
 Grapefruit—
 climate for, 1005
 frost damage to fruit, 2179
 gummosis, 2332
 juice—
 cold storage, 1172
 organic acids in, 2280
 manuring, 1015, 1016, 2334
 nitrogen affects yield, 1015
 quick-decline, resistance to, 1588
 rootstocks, 1008, 1010, 1011, 2173, 2174, 2332
 rootstocks—
 gummosis-resistant, 2332
 and locality affect composition, 1008
 peel percentage affected by, 1011
 storage, 1153, 2250
 vitamin C content influenced by nitrogen nutrition, 214, 1016
Grapholitha—
molesta, 1439
woeberiana, 166
 Grasshopper control, 1391
 Great Britain—see also England—
 fruit marketing, 698
 nematodes, attacking vegetables, 202
 roses in, 382, 1204
 salad production, intensive, 1699
 small fruit growing, 1698
 Greenhouse, see Glasshouse
Gretchena bolliana, 1949
 Griffith Research Station, Australia, 1310
 Groundnut—
 calcium—
 absorption, 2192
 application affects yield, 1051
 composition, manuring affects, 1052
 diseases in Queensland, 1054
 evaluation of yield trials, 1053
 growing—
 in India, 1220
 in Rhodesia, 484
 leaf—
 hopper control, 486
 spot—
 control, 486
 magnesium deficiency favours, 2193
 magnesium deficiency, 2193
 manuring, 1051-1053
Pachymerus beetle, 2332
 photoelectric sorting of, 1158
 products, 1184
 protein-phytic acid relationship, 2197b
 root rot (*Sclerotinia rolfsii*), 485
 rosette virus, 485
 seed disinfection, 485, 2191

Groundnut (continued)—
 storage, *Aphanis* beetle control, 2332
 tobacco thrips control, 2194
 white grub control, 2195
 Growth—
 inhibiting agents, guayule produces, 2076
 lignite compost affects, 655i
 physiology of tomatoes, 925
 plant, physiology of, 588
 rate of tomatoes, night temperature influences, 2114
 substance(s)—see also Hormones—
 aerosol method of applying, 2118
 aesculin, 9
 in agar agar, 617
 apple—
 ripening in storage affected by, 558
 scald controlled by, 1831
Bacterium tumefaciens secretes, 611
 bean plants' response to, 1745-1748
 benzoic acid, 10
 blooming of cut flowers in storage delayed by, 2155
 bud opening in fruit trees retarded by, 1715
 carriers for, 1744
 content—
 in cabbage, 1751
Cuscuta-parasitism increases, 610
 geotropic reaction of leaf affected by, 1239
 in kohlrabi, 1750
 lowered by unfavourable conditions and with age, 610
 and nitrogen content, 1750, 1751
 in tomato flower buds, 610
 cumarin for flower storage, 2155
 for cuttings, 1-3, 5, 361, 372, 548, 561, 614-616, 971, 973, 974, 977, 1242, 1714, 2044, 2156, 2335
 cuttings from plants sprayed with, 4
 demonstrated by grafting *in vitro*, 1240
 determination, gravimetric method of, 612
 diastase action affected by, 655c
 in a diseased plant, 611
 dormancy in potatoes prolonged by, 8, 513
 drought resistance of pine seedlings affected by, 1771g
 dust application method, 616
 embryo heart extract Corhormone, 1241
 ethyleneglycoldiacetate, 2155
 flower abscission in lima beans prevented by, 350, 1707
 fruit—
 drop retarded by, 93-98, 694, 695, 1311, 1312, 1714, 1827-1830, 1832, 2318, 2327
 set in tomatoes induced by, 927, 1706, 2118
 fungicide treatment of flower cuttings in conjunction with, 2156
 for grafting, 615, 969, 972
 as herbicides, 170, 200c, 200j, 836, 1420, 1555, 1595, 1747-49, 1953, 1954, 1956-1961
 inhibit side shoot growth in seedlings, 1754
 for litchi layers, 1218
 literature reviewed, 608, 609, 615, 1242
 metabolism affected by, 1747, 1748

- Growth—substance(s) (*continued*)—
 mineral deficiency partly overcome by, 608
 movement of stimulus, 1748
 β -naphthoxy-acetic acid, 2118
 oat cylinder test, 1771i
 parthenocarp induced, *see also above*, fruit set—7, 95, 927, 1726, 2118
 penicillin, commercial, contains, 1752
 phenylacetic acid, 1746
 phylloxera secretes, 1923
 production favoured by long-day conditions, 595
 Roche 202, 11
 root development of tree seedlings affected by, 1771f
 seed—
 germination affected by, 1749
 treatment with, 6, 589, 613
 Spergon contains, 1753
 in starter solutions, 217
 tissue response to, 609
 for tomato flowers in conjunction with light treatment, 333
 urine extract, 1754
 uses of, 2314
 vitamin C content increased by, 1685
- Guatemala—
 apple growing, 2232
 fruit growing, 2231
 hevea growing, 2227
 Manila hemp growing, 2206
- Juava—
 growing in California, 481
 products, vitamin C content of, 1218
Taragama siva pest, 1128
 varieties in South Africa, 2190
- Guayule—
 in Australia, 2320
 crosses, interspecific, 278, 2074
 embryology, 2075
 essential oil, 964g
 evaluation of plant selections, 964i
 genetic variation in apomictically produced plants, 964q
 inulin content, 964h
 root rot (*Pythium ultimum*), 279
 rubber—
 content, 873; 1225
 in peace time, 2320
 storage, 280
 toxic emanations from roots, 2076
 transplanting, 2073
 virus susceptibility, 874
uignardia bidwellii on grape vine, 799, 1388
ymnosporangium—
 confusum, 156
 juniperi-virginianae, 1349
ypsophila gall, 745 ;
- ail damage to vines, 568, 1344
 airy root, a bacterial plant gall disease, 745
 aiti, coconut and date dying, 2236
 are damage to fruit trees—
 in Sweden, 1293
 and vines, control of, 171, 787
 arvesting—*see individual crops*
 awaii agric. Exp. Stat. A.R. 1942/44, 1218
 awthorn growing in Kazakhstan, 1286
 azel—*see also* Cobnut and Filbert—
 polyploid, 1862
- Heartnut (*Juglans cordiformis*), 122
 Heat canker, 731 (v)
 Hedges, plant spp. used for, 374
Helianthus—
 annuus californicus, 367
 rigidus, 367
 sparsifolius, 367
 tuberosus, 293
 Helicopter—
 for drying cherries, 1867
 for spraying and dusting, 1716, 1867
Heliothis armigera, 224
Heliothrips haemorrhoidalis, 2101
Helleborus niger, 2063
Hellula undalis, 1997
Helminthosporium sp. in cowpea and soy-bean, 354
Helopeltis orophila, 477, 556
Hemileia leaf disease of coffee, 1090
 Hemp—
 growing—
 in California, 1558e
 in Iowa, 2328
 in Russia, 253
 harvesting, 2205
 Manila, growing—
 in Costa Rica, 1620
 in Guatemala, 2206
 seed disinfection, 2040
 sex ratio, fertilizers do not affect, 252
 sowing rate, 2204
Heracleum lehmannianum, 514
 Herbicides—*see also* Weed control—
 Agrozone, 836
 ammonium sulphamate, 170, 1070, 1714
 arsenicals, 1612
 calcium thiocyanate, 1070
 carbon bisulphide, 1612
 copper chloride, 1956
 2,4-dichlorophenoxyacetic acid, 170, 200c, 200j, 1420, 1555, 1595, 1612, 1747-1749, 1954, 1956, 1958, 1959, 1961, 2025
 dinitro ortho—
 cresylate, 843
 secondary butyl phenol, 1555
 Dinoc, 1418
 Methoxone, 836
 2-methyl 4-chloro-phenoxy-acetic acid, 1956, 1957
 oil, 1591, 1612, 1956
 Sincox, 790
 sodium chlorate, 1612
 sulphuric acid, 1956
 technique of application, 236
 2,4,5 trichlorophenoxyacetic acid, 1954
Heterodera—*see also* Nematodes—
 göttingiana, 2021
 marioni, 198, 231, 1522, 1913, 2021, 2209
 rostochiensis, 964c, 2021
 schachtii, 2021
Heteronychus sanctaehelenae, 226, 234, 2098
Heterosporium variabile, 1348
Hibiscus—
 cannabinus—
 cuttings, 445
 a fibre plant, 845-847
 esculentus, 1142
 sabadariffa, an ornamental and food plant, 850
 sabadariffa var. *altissima*, a fibre plant, 850
 Hickory, 1865c
- Hollarhena antidyenterica*, a medicinal plant, 1490, 2049
 Holland—
 apple varieties, 669
 cherry growing, 41, 1782
 cucumber growing, 1524
 cyclamen inspection, 2170
 endive varieties, 317
 flower bulb culture, 386
 frame and glasshouse construction, 1462
 fruit processing, 1157
 horticulture, 1202
 lettuce varieties, 309
 medicinal plants, 1211
 phytopathology in, 767
 ornamental flowering plants, 1206, 1209
 raspberry growing, 1847
 soybean growing, 352
 spice plant growing, 264
 tomato growing, 1524
 vegetable preservation, 1157, 2289
 woolly aphid, 1922
 Honey, a bactericide, 151
 Honeydew, terminology, 1249
 Hop—
 cutworms, 1439
 diseases, 547, 2319
 mould (*Sphaerotheca humuli*) incidence, 2046
 pests, 543
 propagation—
 by runner, layer and strap cuttings, 2045
 by soft-wood cuttings, 2044
 varieties—
 mould susceptibility of, 2046
 new, trials of, 257
 vine weevil (*Otiorrhynchus singularis*) on, 1912
Hoplocampa—
 brevis, 1414
 flava, 1415, 1912
 spp., 786
 Hormones—*see also* Growth substances—
 dormancy of woody plants broken by, 598
 morphological development affected by, 589
 wound, traumatic acid, hastens graft union, 969, 972
 Hornet control in orchards, 1951
 Horticultural instruction in Sweden, 1314b
 Horticulture in Holland, 574, 1202
 Hotbed—
 Dano compost for heating, 1306
 electrical heating, 315, 633, 635, 639, 1208, 2027, 2028, 2029
 flue-heating, 1461
 Hot water—
 with soda ash for *B-trityis* rot of lemon, 1593
 treatment—
 for eelworms, 366
 of *gladiolus* smut, 1568
 of *Phytophthora cinnamomi*, in avocado, 1613c
 for stem borer of fruit trees, 1594
 House plants, aphid pests of, 2172e
 Humus—
 for coffee, 464
 estimating apparatus, 1262
 Hwang-Kuo (sweet orange), 412
 Hybridization, vegetative, 647
Hydnocarpus oil, 1225

- Hydrangea—
colour change, 2163
manuring, 979
- Hydrocyanic acid—*see also* Fumigation,
HCN—sorption by insect pupae,
2010k
- Hydrogen swells in canning, 2286
- Hydroponics—*see* Soilless culture
- Hygiene, orchard, 1868
- Hylemyia brassicae*, 581, 905, 909
- Hylobius abietis*, 952
- Hylotoma coronaria*, 362, 385
- Hymenia recurvalis*, 291
- Hyponomeuta cognatella*, 2100
- Hypothenemus hampei*, 467, 1092, 1093
- Ice storage of fruit and vegetables, 1651
- Ilex*, chromosome numbers, 2242a
- Imperial—
College of Tropical Agriculture, manur-
ial experiments, 443
Council of Agricultural Research India,
A.R.1944/45, 1220
- Inarching—
cloves, 2330
mango, 2330
- Incompatibility—
in apple, 1289, 1714
in cacao, 472
in cherry, 1212
in Clementine orange, 1584
- Incurvaria rubiella*, 568
- India—
coffee growing, 1090
Imperial Council of Agricultural Re-
search A.R. 1944/45, 1220
Soya Bean Subcommittee, 2138
vernalization of tropical and temperate
crops, 2200
- Indian Tea Association (Scientific Depart-
ment), A.R. 1943 and 1944, and
1945, 555, 1710
- Indigo bush, pods source of insecticide,
1986
- Indigofera arrecta*, 477
- Indrabela quadrinotata*, 1594
- I.N.E.A.C. Report 1942 and 1943, 556
- Injection—
iron, 1333
pressure, for applying iron sulphate to
citrus trees, 418
- Insect(s)—
beneficial, in Trinidad, 1617
pests—*see also particular insects and*
crops—
biological control, 449, 451, 454
dispersal of, 449
in Fiji, 1061
in Peru, 450
pupae, HCN sorption by, 2010k
vectors, spread of diseases by, 1869
weed control by, 2320
- Insecticidal—
gases, apparatus for studying, 1434
plants—
Derris elliptica—*see* Derris
Lonchocarpus, 442
miscellaneous, 1448
Pachyrrhizus, 442
Pyrethrum spp., 1449
sabadilla, 820, 822a
Tephrosia noctiflora, 821
- Insecticides—*see* Sprays, insecticides
- International relations in science, 34a
- Inulin in guayule, 964h
- Iowa—
agric. Exp. Stat. A.R. 1944/45, 2328
apple breeding, 1793
hemp growing, 2328
rose growing, 1571
- Iris(es)—
bulbous, flower formation and tempera-
ture, 396
Dutch, early flowering of, 393, 395
garden, evolution of, 2165
for the little garden, 408e
tingitana, 397
varieties, Dutch, flower primordia of,
394, 397
- Irish moss (*Chondrus crispus*) extracts, 551
- Iron—
deficiency—
in citrus, 418
in lettuce, 1706
determination, 605
geochemistry of, 1333
injection for chlorosis, 1333
-manganese balance, 1771i
nitrogen fraction in pineapple affected
by, 1138
- Irrigation—
apples, 86
apricot, 1587
Branch Experiment Station, Washing-
ton, 1727
citrus, 1017-1020, 1587, 1591
coffee, 1724
crowder system, 1587
Deglet Noor date, 1606
for frost protection, 724, 1716, 1878
fruit trees, 691, 692, 1308-1310
furrow, 693, 1842
peaches, 1587
pears, 86
prunes, 87, 88
by sprinkling, 1464
- Irymple citrus experiments, 1009
- Italy—
carrot seed production, 2081
clary growing, 1479
kaki growing, 1284
lemon growing, 410, 411
onion growing, 1505
orange growing, 410
- Itame wauaria*, 1912
- Ivory Coast, cinchona and coffee growing,
1080
- Jamaica—
avocado growing, 1610
coconut growing, 1134
Dep. Agric. A.R. 1944/45, 1712
- Jam, vitamin C retention in fortified, 1213
- Jaman jelly, 1183
- Jamesonia theobromae*, 1099
- Japanese beetle, 964d, 1707, 2010c, 2010j
- Java—
cinchona growing, 541
hevea growing, 541
Jefferson, T., 571, 1266b, 1266d
Jerusalem artichoke—
composition, 1504
refractometer for sugar estimation, 1503
varieties, new, produced by eye selection,
293
- John Innes hort. Inst.—
A.R. 1945, 1713
work reviewed, 1266a
- Juglans*—*see also* Walnut—
spp., various, 122
- Jugoslavia, plum growing, 1789
- Juice—*see* under Fruit juice and under
particular juices
- June beetle, 1397
- Juniper, Zeravšansk, medicinal oil from,
577
- Juniperus*—
chinensis var. *plumosa* grafting, 969
cuttings, 975, 976
- Jute—
photoperiodism, 1619
a review, 1618
vernalization, 2200
- Kaki (*Diospyros kaki*)—
growing in Italy, 1284
harvesting, 2330
rootstocks, 1284
- Kazakhstan, hawthorn growing, 1286
- Kazak, plum growing, 1799
- Kent, cobnut growing, 125
- Kipomorphometrical citrus pruning, 1021
- Kirov Fruit Research Station, 1773
- Kohl rabi—
auxin content, 1750
forcing, 1221
- Kok saghyz—
boron deficiency, 881, 2068
breeding in Russia, 876
callus formation in, 270
Canadian research, 1212
grafting, 1495, 1498
growing—
in Russia, 271, 878
from seedlings, 882
in Sweden, 2065
hand-nest sowing, 883-885
harvesting, 888
liming increases yield, 881
literature reviewed, 270
manuring affects rubber formation, 603,
881
mechanized cultivation, 2066
mineral deficiencies, 359c
propagation by leaf cuttings, 2067
root anatomy, 889
in rotation, 890
rubber—
accumulation in, 274, 879, 880, 886,
887, 1499
extraction, 275
spacing, 1500
tetraploid, 272, 877
trace elements increase yield, 881
wireworm damage, 890
yellow, 932
- Kola, vegetative propagation, 2332
- Komarov Botanical Institute, 579
- Kopet-Dag, almond growing, 1235
- Krasnodar, fruit growing, 670
- Krym saghyz—
grafting, 1495
rubber accumulation related to oxida-
tion, 1499
- Kudzu (*Pueraria*), tropical, against soil
erosion, 447
- Kuehneola fici*, 1347
- Kurchi seed oil, 2049
- Lachnus persicae*, 724
- Lactuca serriola*, a source of downy mildew
infection of lettuce, 2104

SUBJECT INDEX

- Laemostemus terricola*, 1912
Land Grant Colleges, workers in, 1230h
Lappa major grafting, 1495, 1498
Laspeyresia—
 molesta, 1407, 1940
 pomonella—see Codling moth
Latex-producing plants, cuttings of, 616
Lathyrus tingitanus, 239
Latin square for trial lay-out, 654
Lausanne viticultural research station—
 A.R. 1943 and 1944, 561
 function of, 573
Leaf—
 analysis, orange, 2176
 area—
 as index of net assimilation rate, 588
 vegetable yield related to, 827
 extraction of nitrogenous materials from
 green, 2043
 glands in sesame, 2219, 2221
 geotropic reaction, 1239
 influence on pea yield, 1550
 photoperiodic reaction of, 594
 structure related to spray penetration,
 1984
 transpiration, orange, 2175
 vitamin C content reacts to sunlight,
 1685
 weight an index of net assimilation rate,
 588
Leafhopper—
 causes apple measles, 765
 spp. transmitting virus, 1362, 1894
Lecanium—
 carni, 379
 cornii, 2100
Leek—
 fly, 903
 moth (*Acrolepia assectella*), 301, 903,
 1512
Leek (Holland) Vegetable Experiment
 Garden Rep. 1944/45, 1230c
Legumes—
 mosaic, 1885
 root nodule formation—
 long day conditions favour, 595
 nitrogen content affects, 601
 tropical, for green manuring, 1059
 vegetative hybridization in, 647
Lemon—
 Botrytis rot, 1593
 colouring, artificial, 1004
 frost damage to fruit, 2179
 green mould (*Penicillium digitatum*), 505
 growing—
 in Italy, 410, 411
 in New Zealand, 1004
 juice, organic acids of, 2279
 manuring, 1004
 photoelectric sorting of, 1158
 rough, resistant to quick decline, 1588
 pruning, 1004
 rootstocks, 1004
 -scented gum, 1604
 storage, 505, 1004, 1593, 2250
 varieties in Argentina, 565
Leningrad—
 cherry growing in the area of, 1281
 pear growing in the area of, 1279
Leptinotarsa decemlineata, 1470-1475
Leptothyrium gentianaeolum, 1578
Lettuce—
 breeding, 2093
 cloche cultivation, 2031
Lettuce (continued)—
 composition, effect of calcium and
 magnesium on, 1714
 downy mildew susceptibility, 2104
 forcing, 1208
 fumigation with HCN, 1706
 under glass, 912
 harvesting, 311
 head quality related to length of vegeta-
 tive period, 2093
 manuring, 1706
 mineral deficiencies, 1706
 seed—
 dormancy induced, 312
 penicillin inhibits germination, 2105
 varieties—
 Cheshunt Early Giant, 310, 1706
 in Holland, 309
 in Pennsylvania, new, 1718
 virus resistance and manuring, 1706
Levulose from Jerusalem artichoke, 1504
Light—
 artificial, growing plants in, 593
 DDT spray residue affected by, 2007
 as an ecological factor, 593
 neon, for young trees, 577, 641
 treatment—
 of apples prior to storage, 697
 of glasshouse crops, 577, 641
 of seed for storage, 1260
 of tomato flowers in conjunction with
 growth substance application, 333
 lightning damage to vines, 1345
 Lignite compost, 655i
Lilac—
 cuttings, 372, 615
 vacuum treatment under water improves
 keeping quality of cut, 1000
Lilium—
 candidum, 2167
 longiflorum, 2167
Lily (Lilies)—
 for Canadian gardens, 388
 Colletotrichum lili, 1565
 leaf spot (*Botrytis elliptica*), 2167
 mosaic, 2167
 rosette yellow flat, 2167
 weevil (*Agasphaerops nigra*), 1564
Lime—
 dying, 422
 juice cordial, 1175
 rootstocks, 2330
 storage, 2250
 calcic, diluent for calcium arsenate, 2135
 distribution, 1226
 -induced chlorosis of fruit trees, 131
 fertilizer and organic content of soil,
 627
 magnesium, a diluent for calcium arsenate,
 2135
 requirements of potting composts and
 peat, 1224
Liming—
 for clubroot control, 237
 in French market gardening, 1767
 pre-, improves phosphate absorption,
 629
Linseed—
 disinfection, 2040
 diseases, 262
Liriomyza spp., tomato pests, 1706
Lisse Experiment Station, Holland, 363,
 386
Listroderes obliquus, 224
Litchi—
 fruits, preservation of, 1218
 layers, 1218
 propagation, 1638
Lithocerasus, 1280
Little leaf, zinc sprays for, 137
Lobelia—
 inflata, 2058
 nicotinaefolia, a *L. inflata* substitute,
 1108
Locust control, 450, 1066, 1391
Loganberry, pollination, 1713
Lonchaea pendula, 431
Lonchocarpus utilis, girdling induces flower-
 ing, 2203
Long Ashton agric. and hort. Research
 Stat.—
 A.R. 1945, 2329
 history, 1772
Loquat, scab, 1346
Lorette pruning, 1839
"Loss-meter" to determine light transmis-
 sibility of glass, 1462
Lundegårdh flame emission method for
 spectrographic investigations, 1224
Lupinus—
 aluminium and lime susceptibility, 646
 angustifolius, 1843
 Lycium halimifolium, 1348
 Lycotonine, an alkaloid, 868
 Lycopodium alkaloids, 551
 Lycopersicum—see also Tomato
 esculentum *cerciforme*, 2241
 peruvianum, 923
 pimpinellifolium hybrids, 935
 virus 5, 932
Lygus—
 bug causes seed pitting in lima beans,
 2137
 campestris, 1714
 oblineatus, 1439, 1914
 Lysenko, 1733, 2302
 Lysimeter, 1266e
 Lysozyme, *Ficus* a source of, 1972
Macadamia nut growing—
 in Argentina, 483
 in Australia, 482
 in Hawaii, 1218
Macaulay Institute for Soil Research,
 A.R. 1944/45, 1224
Machinery—
 for fruit growing, 1702
 in horticulture, 1732
Macrosteles homonae, a parasite of
 Tortrix, 1215
Macroductylus suavis, 1042
Macrophomina phaseoli, 355
Macrosiphum—
 euphorbiae, a virus vector, 405
 gei, 1997
 pisi, 1554
Macrosporium sp. on flax, 841
Macrosteles quadripunctata, 932
Madder (*Rubia tinctorum*), diseases, 1346
Madras, Department of Agriculture,
 Report on work of agricultural
 stations 1943/44, 2330
Magnesium—
 deficiency—
 in apples, 132-134, 1213, 1714
 in cereals, 200h
 in citrus, 413

Magnesium—deficiency (continued)—
 ground dolomite remedies, 2331
 in groundnut, 2193
 in lettuce, 1706
 of Swedish soils, 1876
 in tomato, 929, 1706, 2119, 2120
 lettuce composition affected by, 1714
 manganese a substitute for (?), 26
 nutrition affects rubber storage, 603
 role in plant, 24
 -zinc relation in pecans, 2327

Maize—
 growing in England, 962
 manuring, 2092

Makhorka, nicotine content and manuring,
 853

Malus—
baccata, 381, 665, 1275
domestica, 1275
prunifolia, 1275
pumila var. *niedzwetzkyana*, 381, 665
pumilus, 1686

Mamestra brassicae, 2100

Mandarin rootstocks, 2173

Manganes—
 chloride absorption by storage tissue,
 1771k
 deficiency—
 in beets, 283
 in citrus, 1055d
 in coffee, 1218
 in kok saghyz, 881
 in lettuce, 1706
 in pea, 2146
 in potato, 1871
 in Swedish crops, 1874
 tissue tests for detecting, 1252
 in tomatoes, 283, 1706
 in walnuts, 135
 function in vitamin C and carotene
 formation, 606
 -iron balance, 17711
 role in agriculture, 25
 a substitute for magnesium (?), 26
 toxicity—
 to apple, 1332
 and soil acidity, 1766

Mango—
 cytogenetics, 1220
 flower formation of axillary buds, 2234
 growing in Ceylon, 2233
 Mexican fruit fly, 2255
 pests in Queensland, 1127
 rootstocks, 552, 2330
 seed kernel for food, 1189
 varieties, vitamin C content, 1218

Mangosteen propagation, 2330

Manihot—see also Cassava—
aipi, 1072
utilissima, 2207

Manual—
 agricultural botany, 2310
 apple—
 growing in England, 1783, 2316
 tree raising, 2312
 varieties of Switzerland, 1200
 bee—
 diseases, 1824
 -keeping, 1198, 1205, 1823
 compost making, 1196
 frost damage to orchards, 544
 fruit—
 and berry culture, biochemistry of,
 2303

Manual—fruit (continued)—
 growing, 545, 2297, 2305, 2317
 and hop diseases, 547, 2319
 and hop pests, 543
 tree raising, 1801, 2309, 2312
 fungicides and their action, 542
 glasshouse food crops, 1701
 hormones, 2314
 mycology, industrial, 1203
 pear growing in England, 1783
 plum rootstocks, 56
 pome and stone fruit, 540
 pruning of ornamental trees and shrubs,
 1692
 roses, 1204
 salad production, intensive, 1699
 silviculture, 2299
 small fruits, 540, 1698
 sunflower growing, 1695, 2311
 trace elements in plants and animals,
 2313
 vegetable—
 growing, 1193, 1704, 2301
 and melon crops, biochemistry of,
 2304
 virus diseases, 546
 viticulture, 1691, 2308

Manure—
 -fertilizer combinations, 2092
 green, decomposition of, 1076
 nitrogenous, from apricot seed, 688
 organic, for tropical crops, 443

**Manuring—see also under particular crops
 and nutrients and under Fertilizers—**
 deciduous fruit, 81, 560, 683-685, 1840
 fruit trees by injection method, 685
 green—
 coffee, 466
 deciduous fruit, 90
 and soil nitrate nitrogen value, 1059
 tea, 1215
 vine, 114, 568
 medicinal plants, 260
 micro elements, 1757
 mineral, affects composition and quality,
 1757
 nitrogen and potash needs determine
 orchard outlay, 662
 orchard, and frost damage, 734,
 organic—
 coffee, 1087, 1088
 increases soil water infiltration, 622
 phosphorus concentration in plant
 affected by, 1757
 potash added to mulch, 84
 stone fruit, 82
 tropical crops, 443
 vegetables, 211, 212, 964k, 2078

Maple—
 cream, 1681
 syrup, 1679, 1680

Marigold—
 black beetle (*Heteronychus sanctae-
 helena*), 234, 2098
 bud mutations, 368

Mariola, 278

Market gardens—
 in England, 2011
 French, liming in, 1767

Marketing—
 apples, 1314d
 citrus, 1045, 1055a
 fruit, 698, 699, 1156a, 1651
 small fruit, 1698

Marketing (continued)—
 tomatoes, 1558c
 vegetables, 698, 699, 1651, 1704

Marmor laesiofaciens, 2129, 2130

Massachusetts agric. Exp. Stat. A.R.
 1944/45, 1714

Matthiola incana diseases, 1346

Mauritius—
 Dep. Agric. A.R. 1944, 1225
 Sugar Cane Res. Stat. A.R. 1944, 1230c

Mealybug—
 comstock, 1919
 control—
 by DDT, 1436
 in glasshouses, 227
 giant (*Drosicha stebbingi*), 1067

Meconopsis, seed germination, 364

Medicinal plants—
Abies sibirica, 577
Alstonia scholaris, 2059
Artemisia spp. as sources of camphor,
 2058
Atropa belladonna, 1635, 2064
 in Australia, 2057, 2320
 buckwheat, a source of rutin, 1492
Caesalpinia bonducella, 2059
 of Ceylon, 2226
 Chinese rhubarb, 2103
Chondrodendron tomentosum, source of
 tube curare, 2060
Coluria geoides, 2058
 of Cuba, 1700
Datura stramonium inermis, 2062
Delphinium brownii, 868
Dichroa febrifuga, 1493
Duboisia spp., 268, 269, 2057, 2320
Evea ipeacuanha, 475
 fertilizer trials, 260
 foxglove, manuring affects drug content,
 1489
Fraxinus malacophylla, 2059
 growing—
 in Holland, 1211
 in Russia, 265-267, 579, 865, 2058
Helleborus niger, 2063
 juniper, Zeravšansk, 577
 kurchi (*Holarhena antidysenterica*), 1490
Lobelia inflata, 1108, 2058
Ocimum canum, 2058
 opium poppy, 2055, 2056
 perilla, 2061
Periploca graeca, 2058
Polygala tenuifolia, 2058
Pongamia glabra, 1636
Rheum spp., 2058
Schizandra chinensis, 577
 squirting cucumber (*Ecballium elaterium*)
 866
Strophanthus spp., 1106
Thermopsis lanceolata, 2058

Medlar—
 cluster-cup rust, 156
Phyllosticta mespili, 1346

Meiosis, X-ray effect on, 1713

Melampsora lini, 248, 249, 1219

Meligethes aeneus, 259, 905, 1442, 1485,
 2100

Melolontha melolontha, 1912

Melon—
 biochemistry of, 2304
 cloche culture, 2030
 fly, 917, 1218
 growing in England, 320, 2030
 leaf beetle, 2109

SUBJECT INDEX

- Melon (*continued*)—
manuring, 2328
mosaic virus (*Cucumis virus*), 915
musk—
dust injury, 2095
Fusarium infection in, 321
seed, heat treatment of, 319
varieties, Texas Cantaloupe No. 1, 1725
water—
genetics, 964m
growing in S. Africa, 914
nematode control, 1522
seed treatment for *Fusarium* infection, 322
- Mentha—
-piperita, 2047
-spicata, 1480
Menthol production in Brazil, 1103
Mesquit (*Prosopis juliflora*) growing in Tripolitania, 1726
- Metaphycus—
helvolus, 1966
lounsburyi, 1965
Metatetranychus—see Red spider
Metaxenia in cultivated plants, 1246
Meteorological records and drought forecast, 861
- 5-methoxy-7-hydroxy 1:2 benzo-pyrone, fluorescence of, 256
- Methyl bromide fumigation, 165, 500, 771, 822o, 900, 1707, 2240, 2255
- Mexican bean beetle, 349, 1994
- Mexico, piñon (*Pinus edulis*) growing, 1129
- Microbial antagonism and disease control, 731 (iii)
- Microbiology of composting, 1224
- Micro-elements—see under individual elements and crops and Minor elements
- Microgaster globata, parasite of leek moth, 1512
- Micro-organisms—
of buds, 148
in dehydrated products, 529, 1180
in fruits and seeds, 149, 200d
isolation from normal plant tissue, 200g of wine, 1677
- Miçurin, 1199, 1236, 1279, 1281, 1733, 2296, 2302, 2306, 2307
- Milkweed (*Asclepias*) not a good source of fibre, 254
- Millet growing in arid regions of Russia, 1467
- Minas Geraes (Brazil), poisonous plants of, 1057
- Minor elements—see also under individual elements and crops—
in accumulation plants, 18
biological function of, 20, 1871
concentration in plants, 1757
content of walnuts, 135
essentiality determined by micro-organisms, 21
estimation, synthetic resins for, 1872
and nutrition, 655k
in plants and animals, 2313
and vitamin content, 19
- Mint growing in Brazil, 1103
Mitscherlich method modified, 1771a
- Mole cricket control, 359f, 455
- Molybdenum—
deficiency—
in kok saghyz, 881
and soil acidity, 1766
and plant growth, 27
- Monilia—see also Sclerotinia—
diseases of fruit, 1905
fructigena, 1906, 1907
of stone fruit, 1908
- Monopiltota pergratialis, 953
- Montana, flax growing, 964n
- Moon and plant growth, 1764
- Moringa oleifera, vitamin C content, 1104
- Morning glory control, 1420, 1612
- Morocco, pear growing, 1271
- Morphine from opium poppy, 2055, 2056
- Moscow, fruit growing, 36
- Mouse control, 788
- Mu oil tree (*Aleurites montana*), 2327
- Mulberry—
diseases, 1346
frost damage to, 1340
growing in Ceylon, 492
- Mulch(ing)—
coffee, 566, 1085, 1724
crops in conjunction with contour planting, 2328
fruit trees, 683, 690, 1781
magnesium deficiency reduced by, 2120
raspberries, 704
soil moisture and organic matter affected by, 690
tomato blossom-end rot reduced by, 2122
- Musa—
fehi, 1641
polyploidy in, 1646a, 2242b
textilis, 1620, 2206
- Museum, living agricultural, 1233
- Mushroom—
compost a substitute for horse manure, 1718
out-door growing of, 2151
scarid fly control, 1706, 1718
spawn production, 2150
- Mustard—
beetle, 2100
oil—
antibiotic, 1969
in *Brassica* spp. and *Eruca sativa*, 1482
potassium deficiency, 623
in Punjab, 1483
vernalization, 854
- Mycoflora, see Micro-organisms
- Mycology—
and horticulture, 1330
industrial, 1203
- Mycorrhizae, nutritive relations in, 655f
- Mycosphaerella—
grossulariae, 762, 798
sentina, 1902
- Myroxylon balsamum tapping, 1110
- Myzus—
ascalonicus, 2088
persicae, 187, 200f, 405, 724, 1440, 1509, 1997, 2225
- Naphthalene against mole-crickets, 359f
- Narcissus—
fly, 995
tazeta, leaf diseases, 2168
virus diseases, 402
- National—
Fruit trials at Wisley, 43
Institute—
of Agricultural Botany, Cambridge, A.R. 1943/44, 570b
of Agricultural Engineering, Askham Bryan, A.R. 1944/45, 1226
- Nebraska—
agric. Exp. Stat. A.R. 1942, 1943 and 1945, 1230e, 1230f, 1715
safflower growing, 261
Nectar secretion in raspberry flowers, 1849
- Nectarine—
brown rot, 1398
Quetta rootstock for peach, 1913
storage, frozen pack, 2267
- Nectria—
galligena, 1899
cinnabarina, 1346
- Nematodes—
areca palm bud rot caused by, 1133
control—
biological, 2209
by D-D, 198, 834, 1218, 1522
by Gesapon, 231
by soil fumigants, 731 (viii), 834
free-living, a vine pest ?, 568
in green manure plants of tea, 1215
hot water treatment for, 366
meadow (*Pratylenchus* spp.), 832
in onions, 897, 900, 901
in peaches, 1913
potato root eelworm, 964c
stem eelworm (*Tylenchus dipsaci*), 964b
a survey, 822n
sweet orange root rot caused by, 2182
in tea, 1215, 2209
in tomatoes, 834, 1218, 1706
in vegetables, 2021
in water melon, 1522
- Neofabraea malicorticis, 756
- Nephantis serinopa, 552
- Nephtelium litchi—see Litchi
- Nepticula malella, 1912
- Nessberry-dewberry hybrids, 1725
- Netherlands Indies—
science in, 541
soybean varieties, 353
- Nettle—
leaves, vitamin C content, 577
tree (*Celtis australis*), bacterial disease, 1580
- Neubauer method for soil culture, modified, 1771e
- New Jersey—
agric. Exp. Stat. A.R. 1945, 2337e
evergreens of, 375
soybean growing, 964c
- New South Wales—
bean seed certification, 342
citrus diseases, 423
diseases, new plant, 749
orchard rehabilitation, 78
Pest Destroyers' Act, 174
- New World, origin of cultivated plants, 1266c
- New York State hort. Soc., Proc. of 91st meeting, 1716
- New Zealand—
Dep. Agric. A.R. 1944/45, 1227
Dep. sci. industr. Res. A.R. 1945/46, 2331
fruit growing, 1702
lemon growing, 1004
potatoes, early, from Nelson, 829
spinach, 2101, 2102
- Nicaragua, El Cero and Cukra Hill Research Stations, 1056
- Nickel—
deficiency in Romney Marsh soils, 1251
in soils and plants, 34j

SUBJECT INDEX

- Nicotiana*—
cytotaxonomy, 852
virus, 940
- Nicotine—
content in makhorka, 853
test by group reagents, 964r
- Nigeria—
Dep. Agric. A.R. 1944, 2332
soybean growing, 1143
- Nitraria* spp., a source of alkaloids, 587
- Nitrate tests for soil and plant tissue, 15
- Nitrification, soil, copper enzyme poisons affect, 1771d
- Nitrogen—
analysis, 34d
content and growth substance content, 1750, 1751
fertilizer—see also below, manuring—
aluminium dross, a, 637
-fixing bacteria, 277, 1616
flowering affected by, 14
manuring—see also individual crops—
of fruit trees, deciduous, 1709, 1718, 1728, 1840, 1899
of grapefruit, 1015, 1016
of plantation crops, 1724, 2208, 2239
rubber formation affected by, 603
of vegetables, 596, 1508, 1516, 1521, 2037, 2139
of vine, 1322
metabolism, copper deficiency affects, 2189
nutrition—
ascorbic acid content influenced by, 214, 603
photoperiodic reaction related to, 596, 2139
organic, for N nutrition of higher plants, 1758
plant growth affected by, 588
source affects plant composition, 13
thrips injury to spinach affected by level of, 2101
- Nodule theory, a criticism of, 200g
- Northern—
Ireland, agric. Res. Inst. Hillsborough, A.R. 1944/45 and 1945/46, 1219, 2337d
latitudes, agriculture in, 581
Rhodesia Dep.-Agric. A.R. 1944, 1230g
- Norway—
fruit growing, 1777
photoperiod of cultivated plants, 1223
small fruit growing, 1777
spruce cuttings, 34e, 655e
vegetable growing, 1777
- Nova Scotia, fruit marketing, 1156a
- Nursery(ries)—
certification scheme in Germany, 52
marker, 680
stock pedigree, 57
in Sweden, 1293
- Nut—see also individual species—
tree acreage of California, 715
- Nutrient—
plant, losses in Tennessee River System, 655d
solution cultures, 823, 1735-1739
transport in plants, 1244
- Nutrition—
and disease development, 731 (vi)
and plant composition, 13
and trace elements, 655k
transplantation a means of studying, 646
- Nutritional—
quality, mineral manuring affects, 1757
study in colloidal clay medium, 1739
Nyasaland Dep. Agric. A.R. 1944, 562
- Ocimum*—
canum, 2058
kilimandscharicum, 1126
Odontria zealandica, 809
Oenothera organensis, self-compatibility in, 1812
Oeschberg method of fruit tree training, 1303, 1304
Office de la Recherche Scientifique Coloniale—A.R. 1945, 1729c
function, 1216
Ohio fruit varieties, 1314c
Ohlsens Enkes, J. E., Plantepat. Lab. A.R. 1940/41, 1941/42, 1942/43, 1943/44 and 1944/45, 563, 2333
- Oidium* of hevea, manuring affects, 1214
- Oil—
citronella, 2323
essential—
from bay rum leaves, 1109
cinnamon, 1721
from citrus, 1683, 1684
from clary (*Salvia sclarea*), 1479
from ginger scrapings, 1187
of guayule, 964g
of mustard in *Brassica* spp. and *Eruca sativa*, 1482
ethereal, in *Heracleum lehmannianum*, 514
fuel, for weed control, 1591, 1612
kurchi seed, 2049
palm(s)
in Brazil, 1132
breeding, 1634
cover crops, 2332
Deli, 2336
Elaeis guineensis, chromosome numbers, 476
Fusarium wilt, 2235
harvesting fruit, 2332
plantation, establishment of, 2332
plants—see also individual oil species—
in Australia, 2320
colza, pest control, 1485
diseases in France, 1484
mu oil tree, 2327
oil poppy, a new pest of, 359g
poonga (*Pongamia glabra*), 1636
saffron thistle seed, 2054
til (*Sesamum orientale*), *Cercospora* blight, 1486
rose, 1573
seeds—
breeding, 1220
diseases, 1220
pests, 359h, 1220
synthesis in tung, 2189
vegetable, vitamin E in, 2295d
volatile—
as bactericide, 577
in orange peel, 2177
- Oklahoma plant diseases, host index of, 748
- Okra (*Hibiscus esculentus*) growing in Costa Rica, 1142
- Oleander knot, 745
- Oleiferous *Brassicae* of Punjab classified, 1483
- Olive—
black scale parasites, 1965, 1966
boron deficiency, 128, 200a
brown scale, 2320
budded, 2324
fumigation, 2254
growing—
in Algeria, 660
in Tripolitania, 1726
knot, 745
oil—
decantation, 1185
determination, 1285
pests and diseases, 2184
picking, mechanical, 696
propagation, vegetative, 1294
pruning, 1305
storage, 1152
Omphalia flavida, a coffee disease, 1627
Onchoba echinata, a pest of, 1099
- Onion—
bactericide from, 577
breeding in Russia, 1506
Botrytis squamosa, 2086
bulb—
development, effect of temperature and light on, 2084
swelling, apparatus for recording, 2084
bulbing and flowering, nitrogen and photoperiod affect, 297
Diplocladia rot, 1510
Ebenezer, accumulation of pyruvic acid in, 299
eelworm, 897, 900, 901
flowering—
biology of, 1506
temperature treatment of bulbs prevents, 295, 296
fly, 229, 1512
forcing, 1221
growing—
in Italy, 1505
in Siberia, 826
harvesting, 897, 2252
manuring, 1508, 2037
neck rot (*Botrytis*), 897, 898
pollen germination not affected by dusts, 902
polyploidy induced, 2085
seed disinfection, 298, 900
set production in Connecticut Valley, 294
smudge (*Colletotrichum circinans*) resistance related to bulb colour, 1511
smut, 300
sprouting, 897
storage, 294-296, 897, 898, 1227, 2252
thrips control, 1714, 2087
topping, 1507
varieties—
Dutch, susceptibility to neck rot, 898
in Tasmania, 964p
yellow dwarf susceptibility, 1509
virus susceptibility affected by nitrogen manuring, 1508
weed control, 1418
white rot (*Sclerotium cepivorum*), 899
yellow dwarf, 1508, 1509
yield and soil aggregates, 896
- Operopthera brumata*, 191
- Orange—see also Citrus—
arsenate of lead affects quality, 1043
Bergamot, growing in Italy, 410

SUBJECT INDEX

- Orange—see also *Citrus* (continued)—
black scale (*Saissetia oleae*), a parasite of, 1965
black spot (*Phoma citricarpa*), 1035
Chinese, rootstocks for, 2330
Clementine—
in Algeria, 550
girdling, 1584
infertility, 1006, 1584
self-incompatibility, 1584
colouring, reversion to green in ripe fruit, 1026
composition, rootstock and locality affect, 1008
Corticium album fungus on, 2183
decay, 2327
disease "podredumbre de las racaillas" or "tristeza", 1013, 1031
frost damage to fruits, 2179
growing at high altitudes, 565
gummosis, 2332
harvesting, 1025, 1027
juice, vitamin C retention, 1174
leaf—
analysis, 2176
transpiration, 2175
Lonchaea pendula, a pest of, 431
manuring, 1029
Macrodactylus suavis, a pest of, 1042
Navel—
stubborn disease, 2180
susceptibility to quick decline, 1588
nitrogen absorption in ringed, 414
peel—
-percentage, rootstock affects, 1011
volatile oil content, 2177
root—
rot, rootstock incompatibility not cause of, 1592
system, 2330
rootstocks, 1009-1011, 1013, 1031, 1588, 1589, 1592, 2174, 2175, 2330, 2332
rootstocks—
gummosis-resistant, 2332
leaf transpiration rate influenced by, 2175
quick decline favoured by sour, 1588, 1589
tristeza disease of seville, 1013, 1031
santra, stem borer control, 1594
storage, 504, 2250
sweet—
fruit set related to flowering, 417
growing in Szechuan, China, 412
resistant to quick decline, 1588
root rot caused by nematode, 2182
storage, 504
trees—
cambial activity and starch cycle in, 416
nitrogen content of, 415
trifoliate, as rootstock, 1010-1012
Valencia—
spotting of fruit, 1029, 1030
susceptible to quick decline, 1588
vitamin C content affected by climate, 1583
Zanzibar, 2336
Orchid—
growing in Hawaii, 1218
raising from seed, 998, 999
scales, DDT controls, 1561
Ord River irrigation area, entomological problems, 158
Oregon, pear growing, 1278
Oribatid plum pest, 1916
Ornamental(s)—
annuals in California, 966
flowering plants in Holland, 1206, 1209
fruit trees, 2172f
garden plants, 2300
plants—
blooming affected by temperature, 361
cuttings, 361
diseases, 1560
pests, 360, 362
photoperiod trials, 360
shrubs—
and climbers in Canada, 373
disease and pest control, 968
evergreen in Belgium, 376
trees and shrubs—
botanical distribution, 965
pest control, 2157
pruning, 1692
Ortho-dinitrobenzene reduction, 1763
Oryzaephilus surinamensis, 1417
Othreis spp., 552
Otiorrhynchus—
singularis, 1912
sulcatus, 361, 778, 1912
Oxalic acid content—
of goosefoot and rhubarb flowers, 518
of leafy vegetables, 218
Oxalis—
acetosella, 1559
crenata, tubers of, 1502
Pachymerus longus beetle on groundnut, 2332
Packing—
citrus, 1696
tomatoes, 937
Palestine—
carotene content of crops in, 2261
cucumber growing, 1523
Dep. Agric. A.R. 1944/45, 1717
frost damage to citrus fruits, 2179
gardening in, 2188, 2197c
rapid plant growth in, 2172d
sea weeds, 1491
soybean varieties, 1542
Palm(s)—
new in Florida, 1131
oil-yielding—see Oil palm(s)
rot (*Thielaviopsis paradoxa*), 1347
Palmette, double, 1836
Papain, 1972, 2292, 2323
Papaver somniferum, 2055, 2056
Papaya—
bunchy top disease, 2196
chromosome numbers in, 476
Paper sources in Belgian Congo, 1058
Paprika—see also Pepper—sterility in, 1481
Parkia roxburghii, 473
Parsley—
Ceutorrhynchidius terminatus on, 1557
seed-borne diseases, 2019
Parsnip roots, anaerobic respiration, 1756
Parthenium—
argentatum—see Guayule
hysteropus, 2075
incanum, 278, 2074
stramonium, 2074
tomentosum, 2074
Parthenocarpy induced—
in fruit trees, 95
in tomatoes, 927, 1706, 2118
Parthenocarpy induced (continued)—
Wageningen experiments, 7
Passion fruit—
brown spot (*Alternaria passiflorae*), 448, 713
pruning, 713
Pasteur effect, 1756
Patchouli growing in the Seychelles, 1721
Paulownia imperialis, 584
Pavia, Disease Control Centre, 1328
Pea—
aluminium has little effect on, 646
aphid control, 1554, 2147-2149
canning—
harvesting of experimental plots, 958
maturity test, 2283, 2284
damping off, 731 (v)
dehydration, 1655
dwarf, under cloches, 2031
early, from Nelson, N.Z., 829
eelworm, 2021
extracts, composition of, 538b
foot rot, 960
growing—
for canning in South Australia, 357
in England, 956
in frames, 1222
growth substances stimulate vitamin C content of germinating, 1685
leaf influence on yield, 1550
lime susceptibility of, 646
manganese deficiency, 2146
manuring, 959
mosaic, 938
for penicillin production, 532, 2145, 2152b
pigeon—
collar rot (*Pythium aphanidermatum*), 964j
genetical studies in, 456
as wind break, 462
respiration, abnormal, 1551
seed—
-borne diseases, 2019
disinfection, 961, 1552
dormancy breaking of, 643
exudate, 961
germination, abnormal, 1536
starch, 1549, 2152f
Tangier (*Lathyrus tingitanus*), growing in Russia, 239
trials in Finland, 1558f
varieties—
Alnarp trials, 1548
crosses, 957
starch content, 1549
Swedish trials, 1548, 2144
weed control, 790, 1555
weevil—
control, 1553, 2100
in Sweden, 2144
yield analysis, 356
Peach—
Armilaria root rot, 747
blotch virus, 1355
breeding, 1257, 1282
buckskin disease, 143
budding, 2330
canning, 1655
Coryneum disease, 1908
cotton root rot fungus, 747
cover crops, 1308
crown gall, 1747
cuttings, 53

SUBJECT INDEX

Peach (*continued*)—
 defoliation, 2184
 dehydration or drying, 530, 531, 1655, 2291
 Elberta, breeding in U.S.A., 1282
 frost—
 damage, 138, 735
 resistance, 1257, 1341
 fruit drop, growth substances check, 94
 fumigation, HCN retention, 1451
 growing—
 in France, 37
 in Pennsylvania, 1719
 in Switzerland, 1283
 in Yakima Valley, 1314f
 harvesting, 2249
 irrigation, 1587
 leaf curl, 1378
 manuring, 687, 1283, 1709
 Mexican fruit fly, 1406
 mosaic, 1356
 moth, oriental, 1407, 1940-1942, 1997, 2320
 nematode attack, 1913
 plum curculio, 1403, 1930
 pollen sterility, 64
 preservation, freezing—*see below*, storage frozen pack
 processing, 2287
 pruning, 1283
 rootstocks, 1283, 1913
 San José scale, 1392
 second cropping, 2184
 seed—
 dormancy, 54
 ripening, 55
 soil management, 85, 687
 stinkbug, 1915
 storage, 1655, 2249, 2267
 storage frozen pack, 1150, 2267, 2269
 sulphite dips for drying, 2291
 tarnished plant bug, 1914
 thinning, 92, 1302
 tree borer, 1718, 1943, 1944
 viruses, 142, 143, 741, 1355, 1356, 1887
 vitamin C content of frozen, 2267
 wart virus transmission, 142, 1887
 winter spraying, 1283
 white root rot, 747
 Peanut—*see* Groundnut
 Pear—
 bacterial blossom blight, 1364
 black root rot, 747
 blight, 747
 blossom weevil, 1928
 breeding in Sweden, 1268
 canning, 1655
 codling moth—*see also* Codling moth—
 1410, 1934
 copper deficiency, 1877
 cordons, 1788
 crown gall, 747
 cuttings, 2330
 dehydration, 530, 1655, 2291
 double working, 1819
 dwarf—
 pyramid, 1786
 tree training, 1834
 fasciation, 745
 fruit—
 bark beetle (*Scolytus rugulosus*) on, 1912
 drop, premature, spraying or dusting to prevent, 694, 1311, 1312, 1829, 1830

Pear—fruit (*continued*)—
 rot and branch canker (*Phacidiella discolor*), 1350
 fumigation, HCN retention, 1451
 grafting, 2330
 growing—
 in England, 1783, 1784
 on farms, 1784
 in the Leningrad area, 1279
 in Morocco, 1271
 in Oregon, 1278
 inflorescence, development of, 1826
 irrigation, 86
 leaf—
 fleck (*Septoria piricola*), 1902
 iron and chlorophyll content, 67, 130
 little longicorn (*Tetrops praeusta*) on, 1912
 manuring—
 green, 90
 nitrogenous, 99a, 686
 trials in Goulburn Valley, Victoria, 686
 midge (*Contarinia pyrivora*), 1405, 1931
 mineral deficiency, 1870
 mushroom root rot, 747
 must, nitrogen content of, 1689h
 pink rot (*Trichothecium roseum*), 1904
 pollination, 61, 676, 677, 1296
 pruning, 1834, 1837
 psylla, 1394, 1410
 rootstocks, 1268, 1272, 1279, 1788, 1792
 rot (*Phomopsis mali*), 1350
 sawfly control, 1414
 scab, 752-755, 1331, 1365, 1369, 1373, 1374
 slug worm (*Caliroa (Eriocampoides) limacina*), 1950, 1997
 soil management, 90
 spindlebush, 76, 568
 spray—
 calendar, 795
 injury, 755
 storage—
 in Canada, 1655
 for canning, 2249
 Cladosporium herbarum rot, 1649
 frozen pack, 2269
 quality affected by hormone spray, 1830, 1832
 sulphite dips for drying, 2291
 twist of stems, 1298
 varieties—
 Anjou, 1278
 for Belgium, 44
 Duchesse Beret, 1798
 hardy, 1279
 identification, 1277
 Rocha, pollination, 1296
 wasp and hornet control, 1951
 Peat—
 bog, a substitute for boron, 839
 compost as substitute for fertilizer and dung, 208
 fortified, a substitute for farmyard manure, 1224
 pH value and lime requirements, 1224
 soils, copper deficiency in, 273
 Pecan—
 bud moth, 1949
 case bearer, 1946-1948
 chloride injury to, 1334
 cover crops, 2327
 growth substances to control shedding, 2327

Pecan (*continued*)—
 magnesium: zinc relation, 2327
 photosynthesis and transpiration affected by soil moisture, 722
 storage of shelled, 1653
 Pectin—
 of apple, 1688
 extraction from fruits, 2281, 2288, 2320
 for gel making, 520
 from tamarind seed, 1188
 Pellicularia—
 alba, 2183
 filamentosa, 1123
 Peltophorum ferrugineum, 473
 Pendulum method of fruit variety identification, 2317
 Penicillin—
 growth substance in commercial, 1752
 peas, medium for production of, 532, 2145, 2152b
 for plant disease control, 1968
 pollen germination affected by, 1247
 seed germination inhibited by, 2105
 Penicillium—
 digitatum, 505
 gladioli, a source of gladiolic acid, 1452c
 italicum, 504
 spp. producing antibiotics, 1970
 Pennisetum purpureum, 566, 1085
 Pennsylvania—
 agric. Exp. Stat. A.R. 1944/45, 1718
 apple growing, 1719
 lettuce varieties, new, 1718
 peach growing, 1719
 pepper varieties, 1718
 State Hort. Ass. Proc. 82nd—86th (1941-45) ann. Meet., 1719
 Pentstemon nigronevus, 1102
 Peperomia spp. in Belgian Congo, 444
 Pepper—*see also* Paprika—
 nitrate and potassium requirements, 20
 varieties in Pennsylvania, 1718
 wilting of, 341
 Peppermint oil, 2047
 Perilla nankinensis—
 manuring, 2061
 a short-day plant, 594
 Periodicals, new, 567, 1207, 1708, 1711, 1720
 Periploca graeca, a source of strophantine, 2058
 Periplocine, a strophantine substitute, 865
 Peronosplasmopara cubensis, 918
 Peronospora—
 brassicae, 905
 dianthicola, 2162
 parasitica, 907, 1346, 1520
 Peroxidase—
 activity intensified at high altitudes and in the far north, 597
 content—
 of carrots, 2265
 of tomatoes, 602
 Perry making, 2271
 Peru—
 Co-operative agric. Exp. Stat. Ting Maria, 442
 cube growing, 2203
 fruit growing, 656
 insect pests, 450
 Peru oka (*Oxalis crenata*) growing in France, 1502

SUBJECT INDEX

est—see also particular pests and hosts—
control—
biological, 179, 180, 1963, 1967
by birds, 2312
in England, 1866
by helicopter, 1716, 1867
by injection of chemicals, 1991
of ornamentals, 2157
by smoke from paper impregnated
with DDT, 2004
soil fertility helps, 2101, 2102
in Switzerland, 181
warnings for fruit growers, 732
Destroyers' Act in New South Wales, 174
and disease research at Burnley, 726, 727
lacidella discolor, 1350
lacidium repandum, 1346
laedon cochleariae, 2100
laalenoides glycine, 224
lalaris tuberosa, 588
laseolus—
lingo, a source of asparagine, 1107
spp. of Central Europe, 539
virus 1 and 2, 940
neological—
graphs of floral development in pear,
1826
report 1945, 655h
nenoxy compounds, substituted, bean
reaction to, 1745
neryl—
ethyl butyrate, a Japanese beetle
attractant, 2010j
-acetic acid, 1746
nialophora—
ninerescens, 978
sp., 361
nlox drummondii, anatomy of embryo,
1001a
noenix dactylifera, 438-440, 1605, 1606
noima—
nomus, 1346
nitricarpa, 1035
nomi, 1368
sp. on flax, 250, 1219
nomopsis—
ninerescens, 1347
nomi, 504
nomi, 1350
nosphate—
adsorption by soil, 625
available, in glasshouse soil, 1706
deficiency—
in cherry, 568
preliming helps to overcome, 629
in tomato, 629
manuring—see also particular crops—
of tea, 2208
of vegetables, 2037, 2092
soil-, solubility, 655a
phosphoric acid in horticultural soils, 17
phosphorus—
concentration, manuring affects, 1757
content—see particular crops
microchemical tests for, 34p
organic, complexes in soil, 626
plant growth affected by, 588
photoelectric sorting of foods, 1158
photoelectric ascorbic acid determination,
1168
photoperiod—see also particular crops—
of cultivated plants in Norway, 1223
growth hormone production affected by,
595

Photoperiod—see also particular crops
(continued)—
of ornamental plants, 360, 982
root nodule formation affected by, 595
and soil deficiency testing, 1762
and top: root ratio, 1755
Photoperiodic reaction related to nitrogen
nutrition, 596, 2139
Photoperiodism—
darkness unnecessary, 1243
of leaf halves, 594
Photosynthesis, copper and zinc deficiency
affect, 437
Phragmidium—
mucronatum, 2160
rubi-idaei, 1379
Phygon for seed disinfection, 1602
Phyllobius urticae, 778
Phyllostachys bambusoides, 1050
Phyllosticta—
dahliaeicola, 2169
mespili, 1346
Phyllostreta spp., 905, 2099
Phylloxera—
control in Switzerland, 163, 770
and court noué, 1358-1361
growth substance secretion, 1923
in Tunisia, 1395
Phymatrichum omnivorum, 747
Physalis peruviana, 706
Physothrips xanthoceros, 1629
Phytoclimate, 1237
Phytometra gamma, 2022, 2023
Phytomonas—
malvacearum, 1869
michiganensis, 1530
syringae, 1033
Phytopathology—
in Holland, fifty years, 728
terminology of, 730
Phytophthora—
bark rot in hevea, 1214
cam bivora, 1325, 1390, 1577, 1864
capsici, 1535
cinnamomi, 1577, 1613c
spp. in citrus, 424, 426, 428
citrophthora, 1010
fragariae, 760
infestans, 750, 1348, 1531
parasitica in pineapple, 1139, 1644
root rot of apple, 747
Phytoptus ribis, 767
Pieris—
brassicae, 2100
rapae, 305, 809, 910, 911, 2100
Pigments of root nodules, 1465
Pimenta racemosa, source of bay rum,
1109
Pineapple—
canning, 536
Ceratomyella paradoxa diseases, 1643
heart rot (*Phytophthora parasitica*), 1644
mealybug, 1146a, 2240
mite, 2240
nitrogen manuring affects composition
and growth, 2239
potassium manuring affects composition,
489, 490, 2238
wilt (*Phytophthora parasitica*), 1139
tissue analysis, iron affects, 1138
Piñon (*Pinus edulis*) growing in Mexico,
1129
Pioneer forficulis, 2100
Piperaceae spp. in Belgian Congo, 444

Pirus—
communis, 1279
ioensis as rootstock for apple, 1715
mamorensis, 1271
Pistachio, ecology, 1235
Pistol case bearer control, 1718
Plaesus javanus, predacious on banana
weevil borer, 451, 1617
Plant—
diseases, preventing introduction of, 729
life in Britain, 1771h
physiology—
in Russia, 1238
in Ukraine, 589
protection in Sweden, 175, 1327
Research Laboratories, Burnley, Vic-
toria, 726, 727
-sociological stations needed, 583
Plantain flour, tannin determination, 1192c
Plantation crops in Zanzibar, 1615
Plasmodiophora brassicae, 237, 905
Plasmopara viticola, 799, 1331, 1381,
1382-1385
Platyparaea poeciloptera, 359d
Plathypena scabra, 950
Pleospora mali, 1901
Ploesus javanus—see *Plaesus*
Plow, Petty, for turning in cover crops,
1702
Plum—
bacterial—
canker, 1895, 1896
shot hole disease, 1896
spot, 1227
breeding, 1694, 1800
budding, 2330
curculio, 1403, 1714, 1718
growing—
in Jugoslavia, 1789
in Kazak, 1799
Japanese, pruning, 79
manuring affects bacterial canker, 1895
Monilia, 1908
oribatid acarid pest, 1916
pollination, 61, 676, 677, 679
processing, 1182
Pseudomonas diseases, 1363
red plum maggot, 167, 181
regrafting, 1818
rootstocks—
bacterial canker influenced by, 1895
in Denmark, 1811
at East Malling, 1792, 1820-1822
identification, 1804, 1805
manual, 56
in Switzerland, 1803
in Tunisia, 1272
sawfly, 786, 1415, 1912
St. Julien as rootstock for apricot, 667
viruses, 741
Plusia gamma, 2022, 2023
Plutella—
cruciferarum, 905
maculipennis, 187, 305, 911, 1997, 2022,
2100
Podosphaera leucotricha, 1795
Poinsettia pulcherrima cuttings, 616
Poison ivy—
in apple orchards, 170
2,4-D for control of, 2025
Poisonous plants of Minas Geraes, 1057
Polia oleracea, 1706
Pollen—
beetle control, 259, 1442, 1485, 2100

Pollen (*continued*)—

- germination—
 - antiseptics affect, 1247
 - on artificial media, fruit, 62
 - DDT, sulphur and lethane dusts do not affect onion, 902
 - density stimulates, 64
 - sterility in peach, 64

Pollination—

- Allium* spp., 895
- almond, 1863
- apple, 61, 63, 676, 677
- cacao, 471, 472, 1100
- cherry, 61, 676-678, 1713
- Clementine orange, 1584
- deciduous fruit, 1297
- loganberry, 1713
- metaxenia, 1246
- pear, 61, 676, 677, 1296
- plum, 61, 676, 677, 679
- tomato, 926
- vanilla, 1101
- vine, 1321, 1856, 1858
- youngberry, 1713

Polychrosis botrana, 561, 1331, 1412

Polydrosus cervinus, 1912

Polyembryony in asparagus, 9640

Polygala tenuifolia, 2058

Polyploid roses, vitamin C content of, 1685

Polyploidy—*see also* Tetraploid and Triploid—

- in apples, 99b
- in coffee, 1077
- inducing substances, 1258
- in *Musa*, 1646a, 2242b
- in onions, sulphanilamide induces, 2085
- in radish, 1241
- in watercress, 913

Polypofin, antibiotic, 1971

Polysticus sanguineus, source of antibiotic, 1971

Polyspora lini, 1219

Polysulphides as fungicides, 172

Pomegranate, ecological studies, 1235

Pomological nomenclature, 1267

Pompilidae, 180

Poncirus trifoliata as a citrus rootstock, 1010-1012

Pongamia glabra, 1636

Poplar—

- a crown gall host, 2001
- cuttings, 1

Poppy—

- oil, *Carpodiplosis papaveris* pest, 359g
- opium—
 - morphine production from, 2055, 2056
 - solar radiation affects ripening, 1487

Portugal, chestnut growing, 1864

Pot method for soil culture, 1740

Potash, muriate, a substitute for sulphate, 1706

Potassium—

- available, in glasshouse soils, 624, 1706
- carbohydrate metabolism affected by, 1254
- content of avocado, 1613a, 1613b
- deficiency—
 - in apple, 1898
 - in cherry, 568
 - in mustard, 623
 - in New Jersey soils, 1875
 - in vines, 115, 1323
- fixation in soil, 84, 623

Potassium (*continued*)—

- Fusarium* wilt of tomato affected by concentrations of, 1214
- in horticultural soils, 17
- leaching, 990
- manuring—*see also* particular crops—
 - organic acid formation affected by, 603
 - of plantation crops, 209, 489, 490, 1478, 2208, 2238
 - rubber formation affected by, 603
 - of tulips, 990
 - of vegetables, 209, 2037
- sodium a substitute for, 959
- sulphate, muriate of potash a substitute for, 1706

Potato—

- blight, 1469
- borer, 450
- Colorado beetle—
 - in England, 2024
 - in France, 1470-1475
- colour of cooked, 2035, 2037, 21521
- cropping twice yearly, 244
- dehydration, 1655
- dormancy—
 - breaking, 1717
 - prolonged by growth substances, 8, 513
- dry matter content, 21521
- early—
 - in hotbed, 2039
 - from Nelson, N.Z., 829
- growing in North Russia, 581
- manganese deficiency, 1871
- manuring, 2037
- mineral deficiency, 2038
- necrosis destroys growth substances, 611
- origin of, 2152h
- pest control with DDT, 1715
- photoperiodic reaction, 2152h
- propagation methods, 241-244, 1717
- quality—
 - site affects, 2034, 21521
 - specific gravity indicates, 2036
- root eelworm, 2021
- scab, 731 (ii)
- seed, growing in South Africa, 2033, 2152k

stem—

- canker, 731 (ii)
- end blackening, pH affects, 2152m
- storage, 241, 244, 513, 581, 1655, 1715
- sweet—
 - boron deficiency, 1601
 - carotene content, 1598, 1600
 - cooking, 1600
 - curing, 1600
 - growing—
 - in Algeria, 1055c
 - in Belgian Congo, 556
 - in Louisiana, 2197a
 - in Texas, 1599
 - manuring, 1600, 2328
 - raising of plants, 1461
 - seed disinfection, 1602
 - stem-end shrink, 432
 - storage, 1600
 - variety trials in St. Vincent, 1723
- virus—
 - feathery mottle, 1046
 - internal cork, 1047
 - vitamin C content, 1600

transplanting of seedlings, 581

Potato (*continued*)—

- varieties—
 - attraction to Colorado beetle, 1475
 - early canker-immune, 2039
- vernalization, 581
- vitamin C content, 538c, 1715
- virus in relation to *Myzus persicae*, 20
- wild species, 240
- Potentiometer, a recording, 34n
- Pratylenchus* spp., 832, 2209
- Premunity, meaning of term, 730
- Preservation, quick freezing—*see* particular crops and Storage, frozen pack

Primula—

- malacoides, 2325
- seed germination, 364
- Pristomerus vulnerator*, 781
- Processing—*see also* individual crops—
 - fruit, 2288
 - peaches, 2287
- Prodenia litura* control by DDT, 1997
- Propagation—*see also* under plants and processes—
 - by root cuttings, 304
 - of rootstocks—
 - Chinese method, 1816
 - by cuttings, 1820-1822
 - by Swerts' grafting method, 1814, 18
 - vegetative—
 - and degeneration, 370
 - of flowering trees and shrubs, 371
- Prosopis juliflora*, 1726

Protein—

- apple fruit, 2258, 2259
- leaf, as index of net assimilation rate, 588
- phytic acid relationship in groundnuts, 2197b
- vitamin concentrate, 1164

Prune—

- brown rot, 1398
- canning, 1655
- dehydration, 1180, 1655
- fumigation against San José scale, 771
- growing in the Lower Seine region, 36
- irrigation, 87, 88
- ripening, 71
- storage, 71

Pruning—

- apple, 1786, 1809, 1834, 1899
- apricot, 666
- citrus, 421, 1021-1024, 1055a, 1055b
- coffee, 461, 556, 1724
- fruit trees, 681, 1838, 1839
- lemon, 1004
- Lorette system, 1839
- olive, 1305
- ornamental trees and shrubs, 1692
- passion fruit, 713
- peach, 1283
- pear, 1834, 1837
- plum, Japanese, 79
- summer, of fruit trees, 1839
- tea, 555
- vine, 682, 716, 1344, 1857, 1858

Prunings, Brush Shredder for, 1702

Prunus—

- chamaecerasus*, 380, 1343
- glandulosa*, 1280
- prostrata*, 1280
- sorbus*, 1932
- triloba*, attacked by bark borer, 1046
- Pseudaphycus*, red spider parasite, 1919

SUBJECT INDEX

seu *coccu*—
brevipes, 1146a, 2240
exitiabilis sp. n., 1098
kenyae, 1091
 spp., 227, 2172e
seu *domonas*—
flaccumfaciens, 344
mors prunorum, 1363, 1895, 1896
phaseolicola, 347, 940-943, 2136
pruni, 1896
prunicola, 1364, 1896
ribicola, 746
spongiosus, 1363
syringae, 2136
tabaci, 955
tumefaciens—see Crown gall
seu *operonospora humuli*, 750
seu *dopeziza*—
ribis, 762, 798
tracheiphila, 1389
sidium—
guajava, 481, 1128
sila rosae, 290, 892-894, 2082, 2083
sylla—
buxi, 987, 988
mali, 1990
teronus ribesii, 785
uccinia menthae, 1480
ueraria phaseoloides, 447
uerto Rico—
 bay rum growing, 1109
 cinchona growing, 1112
 citrus growing, 1003
 ulses, Indian, a source of asparagine,
 1107
 pumpkin seed, dormancy breaking of, 323
 unjab, oil-yielding brassicas, cultivated in,
 1483
 pyramid form of tree training, 76, 568,
 1786, 1788, 1809
yrethrum—
 analysis, 2323
 drying, 2323
 growing in Nyasaland, 562
 urvic acid accumulation in Ebenezer
 onion, 299
ythium—see also Damping-off—
aphanidermatum, 964j
 bald head in soybean caused by, 1545
 spp. causing damping off, 2127
ultimum, 279, 1552
uensland—
 Acclimatisation Society A.R. 1944/45,
 1228
 groundnut diseases, 1054
 mango pests, 1127
 soil erosion, 1265
 strawberry growing, 707
 uince, double working, 1819
 rabbit damage to fruit trees, 787
 radio-active substances for tracing move-
 ment of nutrients in plants, 577
adish—
 photoperiod of forced, 1223
 polyploidy in, 1241
 agweed (*Ambrosia* sp.) pollen production,
 2,4-D controls, 2025
uin—
 apple blossom delayed by, 1825
 bacterial disease spread by, 1869

Rainfall in 1945, 1765
 Raisin grape production, 119
 Ranking methods for comparing data,
 1771m
Ranunculus sceleratus, 867
 Rape—
 frost damage, 258
 pest control by DDT, 259
 spp. of Punjab, 1483
 Raspberry—
 anthracnose in black, 2328
 breeding in Russia, 702, 1316
 bud moth, 796, 797
 cane spot, 796
 clay-coloured weevil (*Otiorrhynchus sing-
 ularis*), 1912
 frost damage, 139
 fruit set induced by growth substances,
 2118
 growing—
 in Germany, 704
 in Holland, 1847
 in Russia, 2298
 hybrids, 1713
Incurvaria pest, 568
 mosaic resistance, 1317, 1848
 mulching, 704
Septoria spot, 796, 797
 spur blight, 758
 varieties—
 for different purposes, 705
 Gertrudis, 1317
 Mallong Promise, 1848
 for quick freezing, 1151
 Radboud, 1317
 virus disease, 546, 1317
 yellow rust, 1379
 Rat control, 1962
 Red spider (*Tetranychus telarius*, *Para-
 tetranynchus pilosus* and others),
 159, 160, 181, 225, 766, 809, 810,
 1037, 1408, 1432, 1436, 1452b,
 1706, 1912, 1918, 1919, 1941, 1942,
 1964, 1974, 1990, 1991, 1994, 1997
 Reference books, 1730
 Refractometer used in Jerusalem artichoke
 industry, 1503
 Renovation of—
 currant vineyards, 716
 orchards in New South Wales, 78
 Report—see also Annual Report—
 biennial, West Virginia agric. Exp. Stat.
 1942/44, 1728
 Institut national pour l'Étude agron. du
 Congo belge 1942 and 1943, 556
 Phenological 1945, 655h
 Proc. Cocoa Research Conference,
 London, 1945, 553
 Reserve nutrients and frost resistance, 1341
 Resins—
 from *Apocynum* spp., 1496, 1497
 synthetic, for minor element estimation,
 1872
 Respiration—see also Storage—
 abnormal, in peas, 1551
 of apple, 496-500
 of carrot and parsnip roots, 1756
 of citrus fruit, 505
 growth substance affects, 1747
 of plants, 590
 of plant cells, 34c
 Reviews—
 Aslib, Select list of standard British
 scientific and technical books, 1690

Reviews (continued)—
 Bacher, T., and Sørensen, F., Dyrkning
 af Køkkenurter paa Friland og
 under Glas, 1193
 Branäs, J., Bernon, G., and Levadoux, L.,
 Éléments de viticulture générale, 1691
 Bray, A., Russian-English scientific-
 technical dictionary, 1194
 Bruce, M. E., Common-sense compost
 making by the quick return method,
 1196
 Černenko, C. F., I. V. Mičurin. Selec-
 ted works, 2296
 Christiansen, W., *Leguminosae*, Lebens-
 geschichte der Blütenpflanzen Mittel-
 europas, 539
 Commission Pomologique Romande,
 I. Nouvelle pomologie romande
 illustrée; II. Arbres et arbustes à
 petits fruits, 540
 Copley, G. H., Fruit growing, 2297
 Cvetkova, E. N., The currant, 2298
 Dallimore, W., The pruning of trees and
 shrubs, 1692
 Efimov, V. A., The cherry, 2298
 Faulkner, R. P., Simple science for the
 gardener, 1197
 Geminova, N. V., and Kressnosselskaja,
 T. A., English-Russian agricultural
 dictionary, 1693
 Hawley, R. C., The practice of silviculture,
 2299
 Higgins, V., Some good garden plants,
 2300
 Hoare, A. H., Vegetable crops for
 market, 2301
 Honig, P., and Verdoorn, F., Science
 and scientists in the Netherlands
 Indies, 541
 Horsfall, J. G., Fungicides and their
 action, 542
 Howard, W. L., Luther Burbank, a
 victim of hero worship, 1694
 Howes, F. N., Plants and beekeeping,
 1198
 Hudson, P. S., and Richens, R. H., The
 new genetics in the Soviet Union,
 2302
 Hurt, E. F., Sunflower for food, fodder
 and fertility, 1695
 International University Press, English-
 Russian technical dictionary, 1195
 Ivanov, N. N., Biochemistry of culti-
 vated plants. Vol. IV. Vegetable
 and melon crops, 2304
 Ivanov, N. N., Biochemistry of culti-
 vated plants. Vol. VII. Fruit and
 berry culture, 2303
 Keeble, Sir F., and Rawes, A. N.,
 Hardy fruit growing, 2305
 Kellera, B. A., and Lysenko, T. A.,
 I. V. Mičurin, 1885-1935, Somo-
 logical descriptions, 1199
 Kessler, H., Apfelsorten der Schweiz,
 1200
 Ledin, J., and others, 40 år för svensk
 trädgårdsodling, S.H.T.F. 1903-43,
 1703
 Levitskaja, K. A., The raspberry, 2298
 Liberman, J., The picking and packing
 of citrus fruits 1696
 Ljsavenko, M. A., and others, The
 experiments of Mičurin's Siberian
 disciples, 2307

Reviews (continued)—

- Massee, A. M., The pests of fruits and hops, 543
 Meržanian, A. S., Viticulture, 2308
 Metlickii, Z. A., and Maleev, E. E., The fruit tree nursery, 2309
 Mičurin Fruit Research Institute, Frost damage to orchards and its repair, 544
 Minkevič, I. A., and others, The sunflower, 2311
 Neergaard, P., Danish species of *Alternaria* and *Stemphylium*. Taxonomy, parasitism, economical significance, 1697
 Nelson, A., Principles of agricultural botany, 2310
 Oldham, C. H., The cultivation of berries fruits in Great Britain, 1698
 Pavlova, M. A., The strawberry, 2298
 Quarrell, C. P., Intensive salad production, 1699
 Ramsbottom, J., Poisonous fungi, 1201
 Rijksstuinbouwvoorlichtingsdienst, Tuinbouwgids voor 1946, 1202
 Roig, J. T., Plantas medicinales, aromáticas o venenosas de Cuba. Parte I and parte II, 1700
 Saltmarsh, Glasshouse food crops, 1701
 Seabrook, W. P., Modern fruit growing, 545
 Smirnov, N. M., How to raise an apple tree, 2312
 Smith, G., An introduction to industrial mycology, 1203
 Smith, K. M., Virus diseases of farm and garden crops, 546
 Stiles, W., Trace elements in plants and animals, 2313
 Swarbrick, T., Harnessing the hormone, 2314
 Tairov, V. E., A reference dictionary of viticulture and commercial processing of grapes, 2315
 Taylor, G. M., Roses: their culture and management, 1204
 Taylor, H. V., Apples of England, 2316
 Tucker, G., The horticultural industry in the Dominions and U.S.A., 1702
 Vercier, J., Arboriculture fruitière, 2317
 Vyvyan, M. C., Fruit fall and its control by synthetic growth substances, 2318
 Whitehead, S. B., Honeybees and their management, 1205
 Work, P., Vegetable production and marketing, 1704
 Wormald, H., Diseases of fruits and hops, 547, 2319
Rhagoletis—
 cerasi, 167, 568
 cingulata, 1404
 pomonella, 780
Rhaphidopalpa chinensis, 2109
Rheum spp., 2058
Rhizoctonia—
 disease of hevea foliage, 1123
 solani, 747, 761, 985, 1034, 1074, 1552, 1569, 2323
 spp. in lupin, 1843
 Rhizosphere effect, 731 (ii)
 Rhodesia groundnut growing, 484
 Rhododendron—
 cultivation in England, 377

Rhododendron (continued)—

- distribution, 981
 grafting, 969, 972
 propagation by cuttings, 973-975, 977
 soil pH affects, 967
Rhopalosiphum pseudobrassicæ, 855
Rhopalosiphinus ribesinus, 200e
 Rhubarb—
 Chinese, 2103
 oxalic acid content, 518
Rhus—
 glabra, 2328
 toxicodendron, 170
Rhynchites—
 bacchus and *R. aequatus*, 1398
 coeruleus, *R. germanicus* and *R. sequatus*, 1912
Ribes—
 aureum, 746
 spp. for currant breeding in Russia, 702
 vulgare macrocarpum, vitamin C content, 1685
 Ribonucleinase of soybean, 2152i
Richardia africana, virus disease of, 831
 Ripening—
 of fruits, acetaldehyde and ethyl alcohol accumulation during, 1248
 terminology of, 72
 River Murray—
 fruit growing, 572
 irrigation practices, 1842
 Root—
 absorption affected by CO₂, 34b
 buds, 1245
 cuttings for dwarf tree production, 673
 development following growth substance treatment, 1745, 1771f
 diseases of deciduous trees, 747
 growth—
 of apple, 74
 of citrus, 1582, 2330
 oxygen influences, 2116
 reserve materials determine, 1755
 -infecting fungi and soil factors, 731 (i)
 knot incidence, soil factors affect, 731 (xi)
 nematodes cause destruction of, 832
 nodules—
 long-day conditions favour formation, 595
 nitrogen content of tissue affects formation, 601
 pigments, 1465
 on *Zygophyllaceae*, 1616
 suberized, absorbs water, 591, 592
 Rootstocks—see also particular plants—
 citrus, 409, 420, 426, 505, 552, 565, 569, 1007-1013, 1588, 1589, 1597, 2173, 2174, 2181, 2332
 deciduous fruit tree, 568, 672, 673, 1845a
 propagation—
 Chinese method, 1816
 by cuttings, 1820-1822
 by Schwerts' grafting method, 1814, 1815
 -scion relationship—
 in apple, 1287
 in grapefruit, 2173
 in *Solanaceae*, 648, 649
Rosa damascena, 1573
Rosaceae, ornamental species, 965
 Rose(s)—
 ant damage, 384

Rose(s) (continued)—

- black mould (*Chalaropsis thielavioides*) causes failure in bud and unions, 1572
 blooming delayed in storage by growth substances, 2155
 callus formation, 276
Coniothyrium wilt, 2161
 cuttings, 967, 1714
 in Great Britain, 382
 greenhouse, 2159
 growing—
 in Canada, out-door, 1570
 in Iowa, 1571
 in Russia, 1235, 1573
 hips, ascorbic acid isolation from, 119
 hybrids, 383
 leaf rust, 2160
 oil, 1573
 rock, 2158
 sawfly, 362, 385, 548
 soil steaming, 1206, 2159
 soilless culture, 2328
 species from Uzbekistan, 1574
 varieties, Parfum de l'Hay a source rose oil, 1573
 vitamin C content related to—
 form of calyx, 515
 genetical constitution, 1685
 time of day and altitude, 1686
Rosellinia—
 neatrix, 1346
 root rot, 747
 Rotary cultivator, 1299 (iii)
 Rotenone—see also Sprays, insecticides—
 content of derris, 817, 2101, 2102
 Rototiller for soil fumigant application, 833
 Rubber (*Hevea*)—
 bark—
 area affected by tapping defined, 114
 rot (*Phytophthora*), 1214, 2323
 breeding in Ceylon, 1214
 brown burt, 1119, 1122, 1214, 2228
 budding, 1116, 1214
 cacao interplanted with, 1415, 2217
 clones in Ceylon, 1117, 2323
 Dothidella ulei leaf disease, 478
 extraction methods, 1190
 grafting method, 442
 growing—
 in Belgian Congo, 556, 1114, 2228
 in Guatemala, 2227
 in Java, 541
 latex concentration, measurement in skin, 2228
 leaf blight, South American, 2229, 2230
 manuring, 1118, 1214
 planting distance, 1115
 Research Board of Ceylon, report work, 1214
 Rhizoctonia foliage disease, 1123
 rootstocks, 1214
 tackiness control, 1214
 tapping systems, 1119-1121
 Rubber (other than *Hevea*)—
 Apocynum spp., 1496, 1497
 Asclepias, 281, 871, 1212
 Castilleja elastica, 1124
 Cryptostegia grandiflora, 270-272, 119
 Funtumia, 1125
 goldenrod (*Solidago leavenworthii*), insect pests, 872
 guayule—see Guayule

SUBJECT INDEX

- bber (other than *Hevea*) (continued)—
Fancornia speciosa, 479
 ok saghyz—see Kok saghyz
 trym saghyz—see Krym saghyz
 nurupita (*Sapium* sp.), 478
Araxacum spp., 870, 1495, 1498, 1499
 au saghyz—see Tau saghyz
bia tinctorum, 1346
 bidium content of plants, 1256
 bus—
fruticosus, 1849
 interspecific sterility, 1713
odoratus and *parviflorus*, 703
saefolius, 126a
 ssia—see U.S.S.R.
 tin from buckwheat, 1492
 e, silicon absorption, 862
- badilla—see Sprays, insecticides
 flower growing in western Nebraska, 261
 from thistle seed oil, 2054
 ge growing in Tennessee, 359k
hlbergella singularis, 1229, 2335
 infoin, *Verticillium* wilt, 2172b
isetta oleae, 1965, 1966
intipaulia, mottling, 369
 lad production, intensive, in Great Britain, 1699
lsola gemmascens, biology, 1488
 lt relations of plant tissues, 1771k
lvia sclarea, an essential oil plant, 1479
 mpling of fruit crops, 42
 n José scale, 658, 771, 822m, 1220, 1392, 1393, 1450, 1920
 nd culture, 1735, 1736
nninoidea exitiosa, 1943, 1944
nsevieria spp. as fibre plants, 849, 2327
 podilla (*Achras zapota*), rootstocks for, 552
ppaphis crataegi and *S. devectora*, 772
andix cerefolium, 292
apteriscus vicinus, 455
histocerca paranensis, 450
hizandra chinensis, source of stimulant, 577
hizolobium excelsum, 473
 ience—
 for the gardener, 1197
 in the Netherlands Indies, 541
 Service, Dominion of Canada, Dep. Agric., A.R. 1944/45, 1705
 identifi books, selected list, 1690
 ientists—
 French, tour Britain, 576
 plant, a biographical encyclopaedia of, 582
illa maritima for mice control, 788
itrothrips citri, 1038
lerotinia—
camelliae, 1575
fructigena, 1398, 1905-1908
laxa, 666, 1376, 1869, 1907
polyblastis, 2168
ricini, 856
(Sclerotium) rolsii, 485, 747
sclerotium, 289, 317
 spp. causing root rot and withering in
 chicory, 316
 trifolium, 345
sclerotium cepivorum, 899
olytus amygdali, 724
- Scythropia crataegalla*, 379
 Seaweeds of Palestinian shore, 1491
Sechium edule, 431
 Sedum alkaloids, 551
 Seed—
 borne diseases, 2019
 certification, 342, 2019
 development and fruit ripening, 602
 disinfection, 228, 250, 298, 308, 322, 347, 361, 485, 563, 900, 949, 961, 1260, 1460, 1540, 1552, 1602, 2016, 2040, 2051, 2133, 2141, 2191
 dormancy, coumarin induces, 312
 fungicides affect germination of vegetables, 2016
 fungus diseases in Denmark, 563
 germination—see also below, treatment—
 abnormal, in large-seeded *Leguminosae*, 1536
 globulin composition, 1770
 a hormone source, 589
 laboratory, function of a, 642
 micro-organisms in, 149, 200d
 moisture content calculated, 644
 production—
 arbutus, trailing, 408a
 cabbage, in South Africa, 2015
 carrot, in Russia, 285, 288, 289, 827
 cucurbit, in Russia, 827
 isolation requirements, 1459, 1713
 sunflower, 1493
 tomato, 331, 359j, 827
 vegetable, 204, 552, 554, 572, 826, 1220, 1221, 1223, 1458, 1459, 1713, 2323, 2324, 2332
 quality affected by position of stem in vegetables, 2018
 transmission—
 of diseases and pests in vegetables, 830
 of virus, 915
 treatment—
 with frost, artificial, 364
 with growth substances, 6, 54, 589, 613
 heat, 319
 radiation, 460
 wetting and drying, 643
 vegetable, investigations in Washington, 1727
 Seedlings—
 as pharmaceutical test objects, 1241
 treatments of, John Innes trials, 1713
 Selenium—
 accumulation, 655j
 injection for pest control, 1991
 in soils, plants and animals, 28
Selenothrips rubrocinctus, 1617
Septoria—
 apii, 314
 linicola, 262
 piricola, 1902
 ribis, 763
 rubi, 796, 797
 spot of citrus, 424
 Sericulture in Ceylon, 492
 Serology and virus research, 363, 1884
 Service tree, host of apple fruit miner, 1932
 Sesame—
 aphid resistance, 2225
 breeding, 2220, 2222
 colour change, 2223
 leaf—
 glands, 2219, 2221
 wrinkling, 2224
- Sesamum orientale*, 1486
 Seychelles, Dep. Agric., A.R. 1940-1944, 1721
 Shade trees—see particular crops
 Shallot—
 aphis, a virus vector, 2088
 propagation of virus-free, 302
 yellow dwarf virus, 1509
 Shamrock, 1559
 Sherry, "flor", manufacture, 1192f
 Shrubs, ornamental—
 botanical distribution, 965
 disease and pest control, 968
 Siberia—
 cucumber, onion and garlic growing, 826
 grape vine species, 1852
 small fruit breeding, 825, 826
 vegetable breeding, 825, 826
 Silicon—
 absorption in rye and sunflower, 862
 and plant growth, 29
Silvanus surinamensis, 1148
 Silver leaf in fruit trees, 757
 Silviculture, 2299
 Sisal—
 anthracnose, 1562
 growing—
 in Spain, 433
 in Tunisia, 1477
 hemp diseases, 434
 Research Station, Ngomeni, Tanganyika, 564
Sitona spp., 2100
 Small fruit—
 biochemistry, 2303
 breeding—
 in Russia, 702, 1316
 in Siberia, 825, 826
 in Sweden, 1268
 in U.S.A., 1315
 growing—
 in Canada, 701
 in Great Britain, 1698, 1846
 in Norway, 1777
 in Russia, 1773, 1774
 in Switzerland, 540
 harvesting and marketing, 1698
 Smoking orchards for fruit-piercing moth control, 2323
 Snapdragon—
 breeding, 1714
 cuttings, 2156
 Sodium—
 carbohydrate metabolism affected by, 1254
 as nutrient, 30
 a potassium substitute, 959
 Soil—
 acidity—
 factors producing, 1766
 and *Verticillium* wilt, 1706
Actinomyces antagonistic to *Fusarium oxysporum cubense*, 1642
 aeration affects disease incidence, 731 (iv)
 air and water movement in drained, 1743
 amendments, inorganic, for disease control, 731 (vii)
 analysis—
 lysimeter, 1266e
 methods, 619, 1741
 in Swedish horticulture, 34k
 -borne diseases, 731 (ii)
 conservation in tropics, 2199

Soil (continued)—

- cultivation—
 - implements, 1299 (ii)
 - water infiltration affected by, 622
- culture—
 - Mitscherlich method modified, 1771a
 - Neubauer method modified, 1771e
 - pot method, 1740
- DDT for treating, 226, 231, 234, 2098
- deficiency—
 - in horticultural, 17
 - testing and photoperiod, 1762
- erosion—
 - crops to prevent, 447
 - in Queensland, 1265
 - in South Africa, 631
 - terraces, planting apples on, 2328
 - and Wolny effect, 621
 - a world survey of, 630
- factors affect—
 - frost resistance of fruit trees, 1341
 - root knot, 731 (ii)
 - virus incidence and symptom expression, 731 (x)
- fertility—
 - recent views, 1771b
 - pest resistance of crops increased by, 2101, 2102
- flower colour affected by, 1206
- frost penetration, 822d
- fumigants—
 - applied by rototiller, 833
 - volatile, 731 (viii)
- heating—
 - electric, 315, 633, 635, 639, 1208, 2027-2029
 - and solar radiation, 822e
- improvement, 1250
- lignite compost affects, 655i
- management—see also particular crops—
 - and disease development, 731 (vi)
 - and frost damage, 734, 1781
 - orchard, 690, 700a, 1299 (iii), 1841
- moisture—
 - and biennial bearing, 73
 - conservation, 1308
 - disease incidence affected by, 731 (iv)
 - Fusarium* wilt affected by, 1534
 - measurement, 32, 618, 620, 1263
 - mulch affects, 690
- nitrate nitrogen after fallow and green manuring, 1059
- nitrification, copper enzyme poisons affect, 1771d
- organic matter—
 - and lime fertilizer, 627
 - mulch affects, 690
 - and phosphate fertilizer, 626
- pests, biological control, 835
- pH—
 - disease incidence affected by, 731 (iv)
 - ornamental plants affected by, 967
 - rooting of cuttings affected by, 970, 973, 977
 - for vegetable crops, 213
- phosphate—
 - adsorption, 625
 - solubility, 655a
- plant disease relationships, 731
- potassium—
 - fixation, 84, 623
 - leaching, 990
- reclamation, 1310
- requirements in Belgian Congo, 2242c

Soil (continued)—

- salinity—
 - effect on citrus, 1027, 1055a
 - resulting from irrigation, 1310
- sampling, 33
- sickness, 361, 2159
- steaming of greenhouse, 2159, 2331
- sterilization, 198, 199, 226, 231, 234, 235, 361, 731 (vii-ix), 833-835, 920, 1206, 1213, 1533, 1569, 1706, 1749, 1769, 2098, 2159, 2331
- straw mulch improves, 628
- suction force, 2175
- sulphur deficiencies in, 136
- survey of cacao, 2335
- temperature affects—
 - Armillaria* root rot, 1377
 - disease incidence, 731 (iv)
 - Fusarium* wilt, 1534
- for vegetables, 964k
- vitamin C content affected by (?), 1685
- weed germination and condition of, 822f
- Soilless culture—
 - equipment, 1737, 1738
 - literature reviewed, 1734
 - of roses, 2328
 - of vegetables, 823, 1735, 1736
- Solanaceae*—
 - alkaloids in grafted, 648
 - carpellary and placental structure, 1771j
 - grafting of, 648, 649, 826, 1468
- Solanum*—
 - andigenum*, 240
 - antipovoczi*, 1468
 - melongena*, 340, 341
 - racemigerum*, 1685
 - spp., vitamin C content, 1685
- Solidago leavenworthii*, a rubber plant, 872
- Sorghum* millets, 1467
- South Africa—
 - botanic gardens, 586
 - guava varieties, 2190
 - seed potato growing, 2033, 2152k
 - soil erosion, 631
 - vegetable seed production, 2015
 - water melon growing, 914
- Sow thistle control with 2,4 dichloro-phenoxyacetic acid, 200j
- Soybean—
 - bacterial pustule, 1543
 - baldhead, 1545
 - Biloxi, photoperiodic control by action spectrum, 351
 - canning green, 2140
 - carboxylase activity, 2152a
 - charcoal rot (*Macrophomina phaseoli*), 355
 - composition, 1541, 2140
 - growing—
 - in Holland, 352
 - in New Jersey, 964e
 - in Nigeria, 1143
 - harvesting stage and nutritional value, 2140
 - leaf spot, 354
 - lima bean borer attack, 1546
 - milk, 1186, 2266
 - mite (*Tetranychus urticae*) control, 1547
 - nitrogen nutrition and photoperiod, 596, 2139
 - pre-harvest sampling, 1541
 - Subcommittee, India, 2138, 2266
 - ribonuclease, 2152i
 - root temperature, optimal, 954

Soybean (continued)—

- seed—
 - disinfection, 1540, 2141
 - germination, 1536, 2142
 - stem swellings, 2143
 - tobacco ring-spot virus, 1558a
 - varieties—
 - in Dutch East Indies, 353
 - for Palestine, 1542
 - vernalization, 1259
 - wild fire disease (*Pseudomonas tabaci*), 955
- Xanthomonas phaseoli* var. *sojense* infection, 1544
- Spain, sisal growing, 433
- Spanioza erythraea*, 562
- Spearmint, rust, 1480
- Spectrography, cathode layer arc analysis, 1224
- Lundegårdh flame emission methods, 1224
- Spectrophotometrical analysis of apple, 731
- Spectrum, action, for photoperiodic control of Biloxi soybean, 351
- Spergon for seed disinfection, 1540, 1551, 1602
- Sphaerotheca*—
 - of gooseberries, 702
 - humuli*, 2046
- Sphagnum moss distribution in -Komsa, Russia, 2020
- Sphenoptera tappesi*, 724
- Spice plant cultivation in Holland, 264
- Spinach—
 - calcium and nitrogen level affect thriving, 2101, 2102
 - injury, 2101, 2102
 - damping-off, 731 (v)
 - leaf spot, 1348
 - nitrogen manuring, 1521
 - photoperiodic reaction, 594
- Spindlebush tree, 76, 568
- Spraea* cuttings, 975
- Split-plot confounding, 1771c
- Sprays and spraying—
 - by aeroplane, 1312, 1716, 1867
 - aerosol—see Sprays, DDT, aerosol and Aerosol
- apparatus—
 - for fruit tree spraying, 792
 - for ground treatment, 1367
 - gun and nozzle, 1299 (viii)
 - hydraulic machinery, 1975
 - injector for mixing sprays, 193
 - lawn mower combined with, 1299 (v)
 - power machines, 1976
 - speed sprayer, 1702, 1718
 - stationary plants, 2010i
 - wetted dust applied by, 1716
- Arasan, 298, 908, 1552
- calendars, 791, 795, 1977
- Compound 341 and 604, 1428
- copper, 428-430, 813, 1452a
- cryolite, favour cabbage aphid, 2094
- damage to bees, 194-196, 808, 822a, 1442, 1445, 1446
- DDT—see also below, Gesapon—
 - aerosol, 811, 822o, 1440, 2147, 2148, 2194
 - analysis, 2010e
 - for ant control, 1952, 1997
 - for *Antestia* bug of coffee, 1631
 - for aphids, 187, 1439, 1440, 1718
 - and aphid predators, 2100
 - for apple—
 - aphid, 1408, 1974

SUBJECT INDEX

- ays and spraying—DDT—*see also below*, Gesapon—for apple (*continued*)—
blossom weevil, 773, 776, 777, 1375, 1399, 1924, 1925
fruit miner, 1932
leaf hopper, 1408, 1936
for apricot grass-grub (*Odontria*), 809
applied from double-nozzled apparatus, 188
for *Autographa brassicae* in cauliflower, 2097
for bean—
aphid, 1997
weevil, 2100, 2133
and bees, 808, 822c, 1442, 2000, 2052, 2100
cabbage—
aphid resistant, 1997, 2100
diamond back moth—*see below*, *Plutella maculipennis*
pests, 229, 233, 305, 905, 911, 1997, 2095, 2100
Canadian trials, 1212
for capsid control in cacao, 1229
for carrot—
aphid, 809
fly, 892, 893, 2082
for cherry fruit fly, 167, 1404, 1439, 1718
for Chinese rose beetle (*Adoretis*) on beans, 1218
for citrus—
pests, 806, 1037
red scale, 2185
for cochylis, 561, 1413, 1945
for cockchafer, 182, 1978
for codling moth, 181, 783, 809, 1408, 1432, 1436, 1936-1938, 1997, 2320
for Colorado beetle, 1443
for colza pests, 1485, 2052
currant brown scale unaffected by, 2100
for cut worms on hops, 1439
plus DN-Dry Mix for red spider control, 1918
emulsion formulae, 2001
for flea beetle, 1485
for fruit pests, 181, 1716, 1998, 1999
for gamma moth (*Plusia gamma*), 2023
Gammexane compared with, 1987
for greenhouse white fly, 1280, 1440, 1706
for insect pests of Lesser Antilles, 1069
insecticidal action, 183, 186, 807, 812
for leaf-eating caterpillars, 379
for leaf hopper on grapes, 1439, 1718
for leek pest, *Acrolepia assectella*, 301
for mealy bug, Comstock's, 1436, 1919
for melon fly, 1218
for mustard beetle, 2100
for *Myzus persicae*, 1997, 2097
for *Nezara viridula*, 1997
onion—
fly, for, 229
pollen germination not affected by, 902
thrips, for, 2087
for oriental fruit moth, 1439, 1940-1942, 1997, 2320
for pea—
aphid, 2147-2149
weevil, 2100
- Sprays and spraying—DDT—*see also below*, Gesapon (*continued*)—
for peach—
aphid, 1997
twig borer, 1439
for pear—
blossom weevil, 1928
slug, 1997
for pecan nut case bearer, 1946, 1948
for pistol case bearer, 1718
for plum—
curculio, 1718
sawfly, 786
for *Plutella maculipennis*, 233, 305, 1997, 2100
for pollen beetle, 259, 1442, 1485, 2100
for potato pests, 1715, 1997
and red spider, 181, 809, 810, 1037, 1408, 1432, 1436, 1918, 1919, 1941, 1942, 1974, 2100
residue, 2005-2007
resistance against rain, 1069
review of literature, 1437, 1996, 2002
for scales on orchid, 1561
for sciarid flies of mushroom, 1706, 1718
for soil treatment, 226, 231, 234, 2098
for squash—
bug, 2107, 2108
vine borer, 2095
for symphyliids, 1718
for tarnished plant bug, 1439, 1914
for *Thrips tabaci*, 2097, 2194
for tomato moth, 1706
toxicity—
to man or animals, 803, 804, 822j, 1438
related to crystal size and shape, 20101
for vegetables, 229, 230, 232, 233, 810, 1558b
for vine pests, 185, 561, 1413, 1718, 1929, 1945
for white butterfly (*Pieris rapae*), 809, 911, 1997, 2100
for white fly (*Trialeurodes*), 1218, 1440, 1706
for woodlice, 2100
for woolly aphid, 1432, 1997
X-ray crystallographic data, 1452f
Elgetol, 154, 758, 1366, 1367
Fermate, 153, 154, 298, 300, 338, 755, 791, 1368, 1525, 1718
- fruit—
drop retarded and fruit set induced—
see Growth substances
thinning, 91, 92
fungicides—*see also* Sprays, *proprietary names*—
action of, 542
bordeaux, methods of preparing, 1426
cadmium, 1718
colloidal, 1421
concentration, 2010h
copper, 428-430, 813, 1452a
copper sebacate, 1974
dimethyldithiocarbamate, 1974
D.N.C. for apple and pear scab, 1370
evaluation, apparatus for, 2017
glyoxalidine derivatives, 1985, 2010p
lime-sulphur toxicity depends on hydrogen sulphide, 1992
nickel, 1718
- Sprays and spraying—fungicides—*see also* Sprays, *proprietary names (continued)*—
organic—
for pome fruit and cherry, 1368, 1428, 1430
residue stability, 1983
polysulphides, 172
pressure and other factors, 2010h
spreaders in apple, 1427
sulphur, 153, 154, 173
testing, technique of, 172
tetramethylthiuran, 1974
in Texas, 1431
toxicity, 2010g
trials in France, 1425
vegetable seed germination affected by, 2016
Gammexane (666)—
action of, 2010b
for ant control, 1952
for cabbage pests, 305
for carrot—
aphid, 809
fly, 2082, 2083
for cockchafer larvae in root region of fruit trees, 1978
concentration, 1444
DDT compared with, 1987
effect on plant cells, 1713
for gamma moth (*Plusia gamma*), 2023
injury to brassicas, 2083
literature reviewed, 1437
for plum sawfly, 1415
for potato beetle, 1443
Gesapon—*see also* DDT—
for aphids, 184
for nematode control, 231
herbicides—*see* Herbicides
Idosect for aphid control, 1995
injury—*see also* particular crops—
to bees—*see* Spray damage
to orchard cover crops, 1307
to ornamental cherry varieties, 408f
insecticides—*see also* Sprays, *proprietary names*
allyl isothiocyanate, 964c
amorphia, 1986
analysis, statistical, 1989
arsenical—
and bees, 1445, 1446
and game, 1471
and milch cows, 1447
atmospheric environment affects toxicity, 1988
azobenzene, 1994
biological tests of winter, 191
carbolineum—
for phyloxera, 163
to prevent hare and deer damage, 171
in Sweden, 159, 1990
colloidal, 1421
contact, action of, 8221
cryolite, 1718
derris, 815, 816
dichloroethyl ground treatment for plum curculio, 1930
dichlorodiphenyl-trichlorethane for wasp control, 1951
dinitro compounds, action on honeybees, 2010f
dinitrocresol, 181, 189-191, 196, 813, 814, 1916

Sprays and Spraying—*insecticides—see also Sprays, proprietary names (continued)—*
 dinitro-ortho-cyclohexylphenol (DN-Dry Mix) with DDT for red spider, 1918
 dosage determination, 1433, 1470
 ethylene dichloride for peach tree borer, 1944
 ferric dimethyl dithiocarbamate, 2152e
 lead arsenate—*see also above*, arsenical added to polysulphides, 172
 cabbage aphid favoured by, 2094
 orange quality affected by, 1073
 nicotine for *Contarinia torquens*, 307
 oil emulsions—
 combined with copper sprays, 813
 structure of, 192
 ovicidal action of winter, 190
 phenothiazine, 1718
 propylene dichloride for peach tree borer, 1943
 pyrethrum, 794, 801, 8221
 rotenone, 178, 818, 819, 1553, 1554, 2186
 sabadilla, 177, 820, 910, 916, 951, 2097, 2107, 2334
 sulphur, a diluent and for aphid control, 1993
 superphosphate-ethylene dichloride, 1718
 testing, 191, 964d
 in Texas, 1431
 thunder god vine, for melon leaf beetle and cabbage pests, 2109
 toxicity to man, 802, 804
 in U.S.A., 1441
 zinc arsenate, 1939
 Isothan Q15, 1368, 1428
 Nirosoan for vine pests, 561, 1413
 Nosparasil, 1371
 penetration related to leaf structure, 1984
 Phygon, 2126
 Pomarsol, 1371
 post-blossom, 1981
 pre-harvest, to delay fruit drop—*see*
 Growth substances, fruit drop
 to prevent fruit set, 91, 92
 Puratized, 1428, 1565, 2126
 residue—
 arsenic and lead, 197
 DDT, 2005-2007
 of organic fungicides, 1983
 Ryanex, 1942, 2097
 Semesan, 908
 Spergon, growth substance content, 1753
 Tartox, 427
 thiocyanate for apple colour, 1728
 Thiosan, 1368
 Veralin, 163, 171, 191
 winter washes, 1980, 1982
 Zerlate, 1428, 2126
 zinc for mottle leaf in citrus, 1044, 2178
 Spruce, dwarf, grafting, 969
 Squash—
 breeding, 1257
 bug control, 177, 916, 2107, 2108
 dust injury, 2095
 storage, 512
 vine borer, 2095
 St. Augustine Station, Trinidad, citrus experiment, 409
 St. Vincent agric. Dep. A.R. 1944, 1723

Starch—
 content of peas, 1549, 2152f
 cycle in orange trees, 416
 Starter solutions for transplanting vegetables, 217
 Statens forsøksgård i grønsakdyrking Kvithamar A.R. 1941, 1942 and 1943, 1221-1223
 Statistical analysis of greenhouse experiments, 2026
 Stemphylium—
 congestum, 1901
 Danish species, 1697
 radicinum excretion, 563
 solani, 1218
 Stephanoderes hampei, 1627
 Stereum purpureum, 757
 Sterile culture of plants, 1742
 Stethorus punctillum, a red spider parasite, 1964
 Stigmaeus floridanus, 2240
 Stipa tenacissima, a fibre plant, 1476
 Stone fruit—
 canning, 1655
 manuring, 82
 Monilia diseases, 1908
 in Switzerland, 540
 Storage—*see also particular crops—*
 air-cooled, of fruit, 2244
 cold, in Canada, 1654
 dips—
 for apples, 501, 1831, 2320
 for grapefruit, 1153
 for sultanas, 2320
 flower, 2154-2156
 frozen pack, 538a, 1150, 1151, 1155, 1218, 1273, 1660-1668, 2267-2269, 2278, 2289
 fruit, 525, 538a, 1273, 1651, 1654, 1660-1668
 gas, 494, 502, 503, 1004, 1154, 1176, 1177, 1647, 1655, 1714, 2154, 2248, 2250, 2251, 2269, 2331
 grape, 56
 maple syrup, 1680
 moss for apple, 2245
 pests, 1148
 quality, anti-fruit drop spraying affects, 96, 98
 of rubber, in plants, 603
 seed, 1260
 vitamin P loss in, 517
 wax coatings—*see above*, dips
 Storm damage to fruit trees, 733
 Straw—
 for glasshouse soils, 222
 mulch for soil improvement, 628
 Strawberry—
 aphid vectors, 1890, 1891
 blossom weevil, 1402
 breeding, 1707
 crinkle, 546, 1890, 1891
 crown borer, 165
 degeneration of Huxley, 1357
 dehydration, 528
 forcing, 105, 106, 1851
 frost resistance, 1707
 fruit set induced by growth substances, 2118
 Fusarium orthoceras infection, 759
 growing—
 in Belgium, 104
 in Germany, 708
 in Ohio, 1865b

Strawberry—*growing (continued)—*
 in Quebec, 1865d
 in Queensland, 707
 in Russia, 2298
 in the Wisbech district, 709
 light and temperature control development, 107
 nettle weevil (*Phyllobius urticae*), 778
 preservation by freezing, 1666, 1667, 2269
 red core (=red stele) (*Phytophthora fragariae*), 760
 Rhizoctonia bud rot, 761
 Rhynchites, 1912
 selection, 102
 storage, frozen pack, 1666, 1667, 2269
 Tarsonemus pallidus mite, 768, 1912
 varieties—
 Evermore, 126b
 Huxley degeneration, 1357
 Montana Progressive, 711
 President Roosevelt, Hanekam, Roy
 Sovereign, 103
 for quick freezing, 1667
 for north and central Russia, 710
 vine weevil, 1912
 viruses, 546, 709, 743, 1357, 1889-1899
 vitamin C content, 1685
 yellow edge, 709, 743, 1889-1891
 yellows, 711
 yield, time of planting affects, 712
 Striga hermonithica parasitizes dolich bean, 1539
 Stringoderma arboricola, 2195
 Strophanthus spp. in East Africa, 1106
 Subtropical fruits—
 nomenclature, 1596
 vernalization, 1259
 Sugarbeet growing, mechanization of, 12
 Sugar—
 maple, 851
 translocation in tomato, wounding and, 334
 Sulphate, soluble, estimation in soil, 615
 Sulphonamides, pharmacology of, 655g
 Sulphur—
 for aphid control and as a diluent in insecticides, 1993
 deficiency in navel oranges, 136
 Sumac growing for tanning purposes, 23
 Sunflower—
 a boron deficiency indicator plant, 17
 Cladosporium herbarum in, 1346
 crown gall, 1240
 exudation of detopped roots, 863
 garden forms, 367
 growing—
 in Australia, 263
 in Argentina, 2053
 in Costa Rica, 1105
 in England, 859, 1695
 in Russia, 861, 2311
 seed—
 production in France, 1494
 treatment for dormancy breaking, 6
 silicon absorption, 862
 varieties—
 in Argentina, 2053
 drought-resistant, 860
 Sweden—
 apple—
 breeding, 1268, 1791, 1795
 juice production, 2273
 storage, 2246
 varieties, 1797

SUBJECT INDEX

- eden (*continued*)—
 carbolineum washes, 159, 1990
 cucumber growing, 1524
 diseases and pests of fruit, 20100
 fruit—
 growing, 1268, 1778-1780, 1845b
 pollination, 61, 676
 tree nurseries, 1293, 1295
 hare damage to fruit trees, 1293
 hazel breeding, 1862
 horticultural instruction, 1314b
 kok saghyz growing, 2065
 mineral deficiency in, 1874, 1876
 pea variety trials, 2144
 pear breeding, 1268
 plant protection, 175, 1327
 potato growing in hotbed, 2039
 small fruit breeding, 1268
 vegetable seed production, 1458
 woolly aphid in, 162
 vedish Market Gardeners' Society, 1703
 veet pea—
 diseases, 360
 under glass, 980
 vitzerland—
 apple varieties, 540, 1200
 cherry—
 growing, 540, 568, 659
 quality standards, 1844
 fruit—
 growing, 540, 657, 676, 1269
 pollination, 676
 mushroom spawn production, 2150
 peach growing, 1283
 pest control, 181
 phylloxera control, 163, 770
 plum rootstocks, 1803
 small fruit and stone fruit growing, 540
 vine rootstocks, American, 1854
 walnut growing, 1861
 aphid control, 833, 1718
 uringa cuttings, 973-975
 zechuan, China, sweet orange growing, 412
- abeuba* spp., 446
agates patula, 368
 amarind seed pectin, 1188, 1192d
 anganyika Dep. Agric. A.R. 1944, 564
 angeline juice production, 2276
 annin—
 from chestnut, sweet, leaves, 124
Cotinus coggygria, a source of, 864
 determination in plantain and banana flour, 1192c
 location in plant sections, 651
 in tea, 1166
aragona siva, a guava pest, 1128
araxacum—
 kok saghyz—see Kok saghyz
 vulgaris, grafting, 1495, 1498
arichium hylemyiae, fungus parasitizing onion fly, 1512
arsonemus—
 latus, 362, 399, 400, 548, 996
 pallidus, 399, 768, 1912
 asmania, onion varieties, 964p
 au saghyz—
 giant forms, 875
 rubber—
 accumulation related to oxidation, 1499
 quality related to age, 2069
- Tau saghyz (*continued*)—
 symbiosis with nitrogen-fixing bacterium, 277
Taxus cuttings, 970, 976
 Tea—
 anatomy, 2208
 biochemistry, 1623
 black rot (*Corticium* spp.), 555, 1710
 breeding, 1710
 budding, 1621
 cuttings, 555
 green manuring, 1215
 growing—
 in Italy, 1075
 in Mauritius, 1622
 in Russia, 1623
 high jat, resistant to phloem necrosis, 1215
 manufacture by pressure, 1215
 manuring, 555, 1215, 1710, 2208
 nematodes—
 in green manure plants, 1215
 resistance to, 1215, 2209
 phloem necrosis, 1215
 pruning, 555
 red rust, 555
 Res. Inst. of Ceylon A.R. 1944, 1215
 rolling methods, 2210
 rootstocks, 1621
 shot hole borer, 1215
 storage pests, 1148
 tannin, 1166
 technology, 1623
 vitamin in, 1166
 yields, genetics of, 1621
 Temperature—
 blooming of ornamentals affected by, 361
 measurement by thermocouple, 1261
 seed germination delayed by high, 1713
 sum, apple blossom affected by, 1825
 vitamin C decomposition affected by, 1169
 Tennessee—
 River system, plant nutrient losses, 655d
 sage growing in, 359k
Tenuipalpus phoenicis, 769
Tephrosia noctiflora, 821
 Termite—
 coconut attacked by, 1135
 DDT as repellent, 2003
 eucalyptus attacked by, 1111
Tetragona expansa, 2101, 2102
Tetranychus—
 bimaculatus, 160
 tetralius—see also Red spider—1452b
 urticae, 225, 1547
 Tetraploid plants, 255, 272, 408c, 877, 1268, 1685, 1751, 1795, 1862
Tetrops praeusta, 1912
Tettigoniella viridis, 1396
 Texas—
 agric. Exp. Stat. A.R. 1944, 1725
 fungicides in, 1431
 sweet potato growing in, 1599
 Thallium for mouse poisoning, 788
Theobroma spp., cross pollination in, 471
 Thermocouple, 1261
Thermopsis lanceolata, 2058
Thielaviopsis paradoxa, 1347
 Thinning—
 apple blossom by sprays, 91
 peaches, 92, 1302
 Thiourea for seed dormancy breaking, 54
- Thrips*—
 in citrus, 427
 in flax, 842
 in gladiolus, 404
 glasshouse, DDT controls, 1440
 tabaci, 2097, 2194
 Thunder god vine, insecticidal plant, 2109
Thuya plicata for boxes, 640
Thymelaea hirsuta, a fibre plant, 1476
Thysanoptera, morphology of, 161
 Timirjazev Academy, 578, 1768
 Tin in canned foods, 534, 535
 Tingo Maria Agricultural Experiment Station, Peru, 442
 Tissue—
 response to growth substances, 609
 testing method, Carolus', 2331
 Tobacco—
 alkaloids, 2152c
 breeding and nicotine test, 964r
 colchicine treatment, 1225
 flea beetle, 2152c
 krommek disease, 964l
 leaf—
 burn, composition affects, 964a
 Carolus' tissue testing method, 2331
 manuring, 603, 964a, 1478
 Rhizoctonia solani in, 2323
 ring spot virus, 1558a
 tetraploid, produced with colchicine, 255
 viruses, 740, 964l, 2323
 Tomato—
 acetaldehyde content, 602
 air-conditioned greenhouse culture, 2114
 Alternaria solani on, 338, 934, 2125, 2126
 bacterial canker, 1530
 big bud virus, 145, 931, 932
 blight, 1531
 blossom-end rot, 930, 2122
 boron deficiency, 283, 337
 breeding—
 disease resistant, 923, 934
 frost resistant, 922, 1713
 in Hawaii, 1218
 caterpillar, 224
 under cloches, 2028, 2031
 "cloud", 1213
 compost, 1706, 2331
 damping-off, 731 (v)
 Didymella lycopersici infection, 1532, 1706
 ethylene for ripening, 1238
 flower buds, growth substance content, 610
 Fusarium wilt, 1533, 1534, 2123, 2124
 glass pots for, 1224
 glasshouse soil, straw added to, 222
 grafting, 826, 1706, 1707
 Grand Rapids disease (*Aplanobacter michiganense*), 933
 grey leaf spot (*Stemphylium solani*), 1218
 growing—
 in England, 328, 1526
 in Holland, 1524
 in Russia, 329
 in Siberia, 826
 in Sweden, 1524
 in Tasmania, 921
 growth—
 substance and light treatment combined, 333
 and temperature, 925, 2114
 guttation, 2115
 hard core, 1213

SUBJECT INDEX

Tomato (*continued*)—
 harvesting, 937
 hybrid, 359j, 1713
 inheritance of chemical characters, 1529
 juice—
 ascorbic acid assay, 1163
 bactericidal action of, 577
 for orchid raising, 999
 vitamin C content of canned, 1655 (vii)
 leaf—
 Carolus' tissue testing method, 2331
 miner, 1706
 mould, 332, 750, 935
 light treatment, 577
 magnesium deficiency, 929, 1706, 2119, 2120
 manganese deficiency, 283, 1706
 manuring, 336, 1706, 2092, 2125
 marketing, 1558c
 moth, 1706
 nematode control, 834, 1218, 1706
 nitrate requirements, 209
 ovule abortion, 2117
 packing, 937
 parthenocarp, induced, 927, 1706, 2118
 peroxidase content, 602
 pests in Tasmania, 936
 pH requirements, 1224
 phosphate—
 deficiency, 629
 requirements, 2092
Phytophthora capsici rot, 1535
 pollination, artificial, 926
 potassium requirements, 209
 processing, 1162
 puree, canned, 568
 raising of plants in cold frames, 1461
 red spider on, 1706
 ripening, 1238
 roots, oxygen influences growth of, 2116
 seed—
 development related to fruit ripening, 602
 production—
 in Australia, 924
 in Russia, 331, 827
 soil sterilization, 1213, 2331
 spotted wilt virus, 831, 1218, 1885
 stolbur virus, 145
 storage, 510
 sugar translocation in wounded, 334
 sun scald, 928
 temperature requirements, 335
 tissue tests, 2331
 transplanting and blight transmission, 1531
 for tropics, 1140
 varieties—
 acid content, 2264
 in Australia, 2112
 for canning, 327, 1527
 classification according to use, 1528
 in France, 2113
 frost resistant, 330
 for out-door growing in England, 1526
 HES 657, 1218
 Hundredfold, 2031
 leaf mould-resistant, 332, 935
 Pearl Harbor, 1141
 in Pennsylvania, new, 1718
 spotted wilt-resistant, 1141, 1218
 sugar content, 2264
 trials at Cheshunt, 1706
 Turalba, tropical, 1140, 2241

Tomato—varieties (*continued*)—
 Vetomold, 332, 935
 vitamin content of, 1162, 2264
 viruses, 740, 1706, 2121
 vitamin C content, 1161, 1162, 1218, 1655 (iii)
 woodlice on seedlings, 2100
 Top: root ratio, reserve materials determine, 1755
Tortrix—
 caterpillar, 166
 a parasite of, 1215
 postvittana, 1043, 2320
 Tosemarken, Sweden, vegetable trials, 1456
 Trace elements—see Minor elements
 Tractors, electrified hand, 568
 Training fruit trees—
 Oeschberg method, 1303, 1304
 spindelbusch, 76, 568
 against walls and as espaliers, 77, 568, 1314g
 Transpiration—see also particular plants—
 excessive, causes premature autumn colouring, 141
 and nutrient transport, 1244
 Transplanting—see also under individual plants—
 fruit trees, 1833
 seedlings without root disturbance, 1713
 vegetables, 217, 1222
 Transportation of fruit and vegetables, 1651, 1652
 Traumatine acid, 969, 972
 Tree(s)—
 deciduous and evergreen absorb water through suberized roots, 591, 592
 flowering, of America, 446
 Fruit Experiment Station, Washington, 1727
 ornamental, botanical distribution, 965
 seedlings, growth substances affect root development, 1771f
 tomato, vitamin C content, 1161
 Trial—
 blank, 1463
 plots, size of, 653
Trialeurodes vaporariorum, 223, 1218, 1706
Tribulus alatus, root nodules of, 1616
Trichoderma—
 lignorum, antagonistic to *Rhizoctonia*, 150, 1034
 viride, a source of viridin, 1429
Trichothecium roseum, 1904
 Trifoliate orange as rootstock, 1010-1012
Trifolium dubium, 1559
 Trinidad—
 beneficial insects, 1617
 and Tobago, Dir. Agric. Administ. Rep. 1943 and 1944, 2334
 St. Augustine Station, citrus experiment, 409
 Triploids, 1268, 1685, 1713, 1795, 1862
 Tripolitania, survey of land resources, 1726
Trithrinax brasiliensis, 1131
 Tropical crops—
 manuring, 443
 selection, 1614
 Trumpet tree, 378
Tripterogium forrestii, 2109
 Tsontsal, a variety of *Brassica juncea*, 303
 Tube-curare, 2060
 Tuber flea beetle, 1558d
 Tubers from graft hybrids, 1468

Tucuman agricultural experiment station A.R. 1943, 565
 Tulip—
 breaking, 405
 potassium manuring, 990
 scale spotting of bulbs, 1348
 virus diseases, 405
 Tung—
 biochemistry, 1623
 breeding in Nyasaland, 1048
 copper deficiency, 437, 2189
 cover crops, 1048
 cultivation, 2327
 grafting, 1603
 growing—
 in Brazil, 435, 436, 1603
 in Nyasaland, 562
 in Russia, 1049, 1623
 oil synthesis affected by copper deficiency, 2189
 propagation, 2327
 seedlings, the raising of, 1603
 technology, 1623
 zinc deficiency, 437
 Tunisia—
 fibre plants, 1476
 fruit growing, 1272, 1273
 motor power in horticulture, 1301
 phyloxera in, 1395
 sisal growing, 1477
 Turkey, agriculture in, 655b
 Turkoman' Experiment Station, Russia, 1235
 Turnip—
 dehydration, 1655 (i)
 greens, carotene and ascorbic acid content influenced by various factors, 359a
 photoperiod of forced, 1223
 yellow mosaic, 2079
Tylenchus—
 dipsaci, 964b
 semipenetrans, 2182
Tylocladia fragariae, 165
Typhlocyba—
 froggattii, 164
 pomaria, 765
Typhula spp. as agricultural pests in Denmark, 220
 Tyrothricin, an' antibiotic, 1968
 Uganda Dep. Agric. A.R. 1943/44 and 1944/45, 566, 1729d
 Ukrainian Academy of Sciences, 589
 Ultraviolet radiation does not control cherry decay, 1424
Uncinula necator, 799, 1381, 1383, 1386
 United States—see also individual States—
 bamboo cultivation, 1050
 date growing, 438
 Directory of Dep. Agric., 1230i
 insecticides, 1441
 nutritional plant diseases, 127
 peach breeding, Elberta, 1282
 small fruit breeding, 1315
 Uranium deficiency in kok saghyz, 881
Urena lobata, a fibre plant, 556
 Urine extract inhibits seedling growth, 1754
Urocystis—
 cepulae, 300
 gladioli, 1568

SUBJECT INDEX

S.S.R.—see also individual areas—
Apocynum spp. as sources of fibre, rubber
 and resins, 844, 1496, 1497
 apple rootstocks, 1275
 black currant varieties, 101
 cabbage varieties for North, 1515
 camphor production, 2058
 carrot seed production, 285, 289
 cauliflower varieties for North, 1515
 cherry growing, 1281, 2298
 coffee growing, 1626
 cucurbit seed production, 827
 currant breeding, 702, 1316
 frost damage and resistance of fruit trees,
 544, 1238, 1341-1343, 1880
 fruit growing, 36, 666, 670, 1773, 1774
 gooseberry breeding, 702, 1316
 gram growing, 1145
 hemp growing, 253
 kok saghyz breeding or growing, 271,
 876, 878
 medicinal plants, 265-267, 579, 865, 2058
 millet growing in arid regions, 1467
 onion breeding, 1506
 orchard management, 700a
 plant—
 breeding, 1733
 physiology, 1238
 plum growing, 1799
 raspberry breeding or growing, 703,
 1316, 2298
 rose growing, 1235, 1573
 seed production, 204, 285, 288, 331, 827
 small fruit growing and breeding, 702,
 1316, 1774
 strawberry growing, 710, 2298
 sunflower growing, 861, 2311
 Tangier pea (*Lathyrus tingitanus*) grow-
 ing, 239
 tea growing, 1623
 tung growing, 1049, 1623
 vegetable growing, 204, 359i, 2014
 vine growing, 717
 Uzbekistan, rose species from, 1574

Accinium corymbosum, 1208
Asteria officinalis, 260
 nilla—
 growing—
 in Mexico and Brazil, 474
 in the Seychelles, 1721
 pollination, 1101
 triety trials—see under Fruit and Vege-
 table varieties
 Vegetable(s)—see also particular vegetables
 anhydration, 1179
 ascorbic acid content influenced by
 nitrogen nutrition, 214
 biochemistry, 2304
 blanching, 1155, 1159
 borax tolerance, 1501
 boron deficiency, 1501
 breeding—
 in the Rostov province, 205
 in Siberia, 825, 826
 in Switzerland, 568
 canning in Baluchistan, 1658
 composition, environment affects, 2327
 contour planting, 2013
 dehydration, 531, 1176-1179, 1181, 1227,
 1655, 1669-1674, 1689e, 2327
 drainage, 216
 dried, storage of, 1154

Vegetable(s)—see also particular vegetables
 (continued)—
 early—
 under cloches, 2031
 in France, 1234
 experiment garden, Leek, 1230c
 extracts, ascorbic acid oxidation by,
 1689f
 food value, 2257
 fungicide evaluation, 2017
 growing—
 in the Cape Flats, 206
 on collective farms outside Moscow,
 359
 in Denmark, 1193, 2325
 in England, 2301
 in Georgia, 1558g
 in Holland, 1208
 on Koo-wee-rup Swamp, Victoria,
 Aust., 824
 in New Zealand, 1227
 in North Australia, 2198
 in North Russia, 204, 2014
 in Norway, 1223, 1777
 in River Murray Reclaimed Swamps,
 572
 in Sweden, 1453-1457, 1703
 in Switzerland, 201, 202
 in U.S.A., 1704
 leafy, calcium and oxalic acid content,
 218
 light treatment, 641
 manuring, 211, 212, 964k, 2078
 marketing—
 in Britain, 698
 in U.S.A., 699, 1704
 mineral deficiency in, 1873
 mineral and vitamin content in green,
 215
 nematodes attacking British, 2021
 oils, vitamin E estimation in, 2295d
 organic matter requirements, 213
 pest control by DDT, 229, 230, 232, 233,
 810, 1558b
 photoperiod studies in Norway, 1223
 preservation—
 domestic, 2290
 by freezing—see below, storage, frozen
 pack
 with sulphur dioxide, 525
 in Tunisia, 1273
 processing in Holland, 1157, 2289
 quality determination, 559
 research needed in England, 823
 seed—
 disinfection, 228, 1460, 2016
 Investigations, Washington, 1272
 production—
 in Ceylon, 552, 2323
 in Cyprus, 554, 2324
 in India, 1220
 isolation requirements, 1713
 in Nigeria, 2332
 in North Russia, 204, 827
 in Norway, 1221, 1223
 in Palestine, 1717
 in Siberia, 826
 in South Africa, 2015
 in South Australia, 572
 in Sweden, 1458
 quality, position of stem affects, 2018
 transmission of diseases and pests in,
 830
 waste of, 207

Vegetable(s)—see also particular vegetables
 (continued)—
 soil, 213, 964k
 soilless growth, 823, 1735, 1736
 standardization, 1313
 storage, 506-508, 1147, 1154, 1651
 transplanting, 217, 1222
 variety trials—
 at Kvithamar, Norway, 1221, 1222
 in Sweden, 203, 1455-1457
 weevil (*Listroderes obliquus*), 224
 yield, leaf area related to, 828
Venturia—see also *Fusicladium*—
 _{inaequalis}—see Apple scab
 _{pirina}—see Pear scab
 Vernalization—
 of carrots, 286
 in French horticulture, 1259
 of mustard, 854
 of potatoes, 581
 of tropical crops and of temperate crops
 in Tropics, 2200
Verticillium—see also particular crops—
 _{dahliae}, 2172b
 wilt and soil acidity, 1706
Viciae of Central Europe, 539
 Vine—
 Adoxus obscurus pest, 779
 berlandieri-rupestris hybrids, 1320
 boron deficiency, 1335
 breeding, 1257, 1320, 1645
 chlorosis, 1333, 2320
 cochylis control, 561, 568, 1331, 1412,
 1413, 1945
 composition of *Vitis vinifera*, 118
 Coniothyrium infection following hail
 damage, 561
 coulture, 116
 court noué, 146, 1358-1361, 1892, 1893
 currant growing in non-irrigated dis-
 tricts, 716
 cuttings, 561
 development, phytoclimate affects, 1237
 direct producers—
 in Switzerland, 718, 2274
 phylloxera control in, 163, 770
 disease and pest control—
 in France, 1331, 1423
 in Michigan, 157
 downy mildew, 799
 eudemis control, 561, 1331, 1412
 experiments at Jenins, Switzerland,
 110
 frost—
 insurance, 1338
 protection, 1878
 under glass, 117
 grafting, 615
 grape—
 berry moth, 1718
 black rot, 799, 1388
 Botrytis cinerea, 1911
 bud beetle, 1929
 juice production, 2274, 2277
 maturity affects wine composition,
 2272
 must—
 arsenic determination, 1689c
 deacidification, 1676
 storage of table varieties, 561
 Tortrix postvittana, 1043
 vitamin—
 C content, 1655
 P from, 517

Vine (continued)—

- growing—
 - in Belgium, 1319
 - dictionary, Russian, 2315
 - in France, 1234, 1326c, 1358, 1691
 - in Germany, 667
 - in Missouri, 725a
 - in New Zealand, 1227
 - in River Murray areas, 109
 - in Russia, 717, 1235, 2308, 2315
 - in Switzerland, 1326a
 - in Tripolitania, 1726
 - in tropics, 1645
 - in Washington, 714
- hail damage—
 - protection against, 568
 - pruning after, 1344
 - resistance to, 561
- hare and deer damage control, 171
- interplanting with fruit trees, 1853
- leaf hopper, 1439, 1718
- leek (*Allium polyanthum*), 1419
- lightning damage, 1345
- on long leg system, 719
- manuring—
 - green, 114, 568
 - nitrogen, 1322, 1858
- mildew control, 561, 799, 1331, 1381, 1382, 1384, 1385, 1387
- mite (*Tenuipalpus phoenicis*), 769
- moth (*Phalaenoides glycine*), 224
- Oidium control, 799, 1381, 1383, 1385, 1386
- pests controlled by DDT, 185
- phylloxera—
 - control, 163, 770, 1395
 - and court noué, 1358-1361
 - galls due to growth substance secretion, 1923
 - resistance, 1923
- Pierce's disease, 1362, 1894
- pollination, 1321, 1856, 1858
- potassium deficiency, 115, 1323
- powdery mildew—see *Oidium above*
- propagation, 1855
- pruning, 682, 1344, 1857, 1858
- raisin grape production, 119
- rehabilitation, 1892
- rootstocks, 111, 113, 1854
- "rote brenner" (*Pseudopeziza tracheiphila*), 1389
- soil management, 1299 (iv), 1299 (v)
- species cultivated in Siberia, 1852
- sultanas, storage dips, 2320
- sun scald of table grapes, 1882
- topping, 720
- varieties—
 - classified, 1318
 - Muscat Doré, 1865a
 - in New York, 112
- viruses, 744, 1892-1894
- weed flora, 1452c
- zinc deficiency, 116
- Viridin, a fungostatic substance, 1429
- Virus—see also *particular plants—*
 - in citrus, 1586
 - complex synthesis in strawberry, 1890, 1891
 - in crucifers, 1466
 - diseases of farm and garden crops, 546
 - dissemination by wind, 1349
 - electrophoretic studies, 1352
 - incidence and symptom expression related to soil factors, 731 (x)

Virus—see also *particular plants (continued)*—

- infection, cause of degeneration, 370
- insect vectors, 1869
- in legumes, 1885
- purification, 740
- research, review of, 1351
- serological study of plant, 363, 1884
- transmission, mechanical, following use of abrasives, 822h, 1885
- wound-tumour of roots, caused by *Aureogenus magnivena*, 219, 1886
- Vitamin(s)—
 - from the air, 589
 - B in buds and shoots, 68
 - C—
 - content—see also *particular plants—*
 - of fortified jams, 1213
 - of frozen fruit, 2267
 - of leaves reacts to sunlight, 1685
 - soil influence on, 1685
 - stability in gel powders, 519, 520
 - of stored fruit and vegetable, 1651
 - of vegetables, 214
 - weather affects, 1685
 - decomposition, temperature affects, 1169
 - in coconut milk, 522
 - content, minor elements and, 19
 - E in vegetable oils, 2295d
 - K content of nettle leaves, 577
 - P in black currants and grapes, 517
 - PP in edible fungi, 358
 - protein concentrate, 1164
 - in tea, 1166
 - in vegetables, 215
- Vitis—see also *Vine—*
 - berlandieri, 1320
 - schrederi and silvestris, 1852
 - Volumnus obscurus, a coffee pest, 1628
 - Voltage regulator for laboratory use, 340
- Wädenswil horticultural Research Station
 - Rep. 1943, 568
- Wageningen, Inst. Fruit and Vegetable Products A.R. 1940, 1941 and 1942, 557-559
- Wall fruit trees, 77, 568, 1314g
- Walnut—
 - boron deficiency, 128
 - codling moth, 783
 - fluorine injury, 2009
 - grafting, 721
 - growing—
 - in France, 1325
 - in Holland, 120
 - hickory, 1865c
 - Japanese (*Juglans sieboldiana*), 122
 - Manchurian, 122
 - manganese deficiency, 135
 - minor element content, 135
 - Persian, transpiration after bordeaux spraying, 800
 - ring rot of fruit, 1348
 - seed selection in Switzerland, 1861
 - variations in non-clonal material, 1860
 - varieties—
 - at East Malling, 1859
 - with red seed coat, 121
 - vitamin C content, 516, 1169, 2295e
- Washington—
 - agric. Exp. Stat. A.R. 1944/45, 1727
 - vine growing, 714

- Wasp control in orchards, 1951
- Wastes, agricultural, utilization of, 551
- Water—
 - absorption through suberized roots, 592
 - conservation after irrigation, 693
 - currents in drained soil, 1743
 - infiltration, soil cultivation and organic fertilizers affect, 622, 690
 - relations, growth substance affects, 1
 - storage in non-irrigated areas of South Wales, 184
 - transport in plants, 1249
- Watercress, polyploid, 913
- Watering—
 - damping-off checked by delay in, 21
 - glasshouse, with warm water, 636
- Weather in 1945, 1765
- Weather, a monthly journal, 1720
- Weed(s)—
 - in the Balcarce district, Argentina, 1
 - control—see also *particular crops—*
 - weeds, and Herbicides—
 - in Australia, 1953, 2320
 - biological, 2320
 - in citrus, 1591, 1595
 - in lawns, 1961
 - in Montana, 822k
 - in orchards, 1420
 - by plant growth substances, 170, 200j, 836, 1420, 1555, 1595, 171749, 1953, 1954, 1956-1961
 - by soil treatment with 2,4-D., 171958
 - in Swedish agriculture, 822g
 - germination—
 - at Hiroshima, 1769
 - and soil conditions, 822f
- West African Research Inst., Tafo, Ashanti, 1944/45 and 1945/46, 1229, 2335
- West Virginia agric. Exp. Stat. biennial Rep. 1942/44, 1728
- White fly control, 223, 1218, 1440, 1706
- White grub, 1397
- Whortleberry, 1208
- Windbreaks, 462
- Wine—
 - acid loss in, 524
 - arsenic determination, 1689c
 - barrels, treatment of, 2295b
 - old book on, 523
 - browning of, 1689g
 - composition, grape maturity affects, 2272
 - defects, treatment of, 1170
 - fruit, production, 558, 568, 2295c
 - pH determination, 1689a
 - spoilage by micro-organisms, 1677
 - type, Villaudric, 1326b
- Winter hardiness—see *Frost resistance*
- Wisbech district, strawberry growing, 7
- Wisley—
 - Gardens, 2153
 - trials, 43
- Wolny effect, 621
- Wood—
 - ashes, a boron substitute, 839
 - preservative, DDT a, 2003
 - Woodlice on tomato seedlings, 2100
- Woody plants—
 - bud-bearing roots on, 1245
 - cuttings, 1
 - dormancy breaking of, 598
- Woolly aphid—see *Aphid*, woolly

SUBJECT INDEX

- ound tumour, a virus disease of roots, 219
- rays—
- effect on meiosis, 1713
- self compatibility induced by, 1812
- anthomonas phaseoli*, 1544, 2136
- anthosoma sagittifolium*, 458
- laria mali*, 747
- leborus saxeseni*, 1912
- ukima Valley, peach growing, 1314f
- an leaf blight (*Rhizoctonia solani*), 1074
- east extracts to increase plant growth, 12
- Youngberry pollination, 1713
- Youth form of trees maintained in vegetative propagation, 268
- Zanzibar—
 - Dep. Agric. A.R. 1944 and 1945, 569, 2336
 - horticultural and plantation crops, 1615
- Zapote mamey (*Calocarpum mammosum*)
 - host of *Anastrepha serpentina*, 1406
- Zinc—
 - deficiency—
 - in citrus, 1044, 2178
- Zinc—deficiency (*continued*)—
 - growth substance overcomes, 608
 - in Romney Marsh soils, 1251
 - in stone fruit, 137
 - in tung, 437
 - in vines, 116
 - as a nutrient, 31
- Zinnia, powdery mildew (*Erysiphe cichoracearum*), 1576
- Zonocerus variegatus*, a fungus disease of, 454
- Zürich-Oerlikon agric. Res. Stat. Rep. 1938/42, 570d
- Zygophyllum* spp., root nodules of, 1616

LIST OF PUBLICATIONS

other than books abstracted or containing articles abstracted in *Horticultural Abstracts*, 1946, Vol 16.

Aarborg for Gartneri, Copenhagen
Acta Agriculturae Suecana, Stockholm
Administration Report Ceylon Director of Agriculture, Peradeniya
Administration Report British Guiana Director of Agriculture, Georgetown
Administration Report Trinidad and Tobago Director of Agriculture, Port of Spain
Advances in Modern Biology, see Uspehi
Agricultura Técnica, Santiago di Chile
Agricultural Gazette of New South Wales, Sydney
Agricultural History, Washington, D.C.
Agriculture, London
Agriculture in the Americas, Washington, D.C.
Agriculture Pratique, Paris
Agronomie Tropicale, Nogent S/M, Seine
American Fruit Grower, Cleveland, Ohio
American Journal of Botany, Lancaster, Pa.
Anais do Instituto Superior de Agronomia, Lisbon
Anales de la Universidad de Costa Rica, San Jose
Angewandte Botanik, Berlin
Annales des Epiphyties et de Phytogénétique, Paris
Annales de l'Institut Agricole et des Services de Recherches et d'Experimentation Agricoles de l'Algérie, Algiers
Annales du Service Botanique de Tunisie, Ariana
Annali dell' Osservatorio di Economia Agraria di Portici, Naples
Annals of the Agricultural College of Sweden, Uppsala
Annals of Applied Biology, London
Annals of Botany, London
Annals of Missouri Botanical Garden, St. Louis
Annual Report Barbados Department of Science and Agriculture, Bridgetown
Annual Report Basutoland Department of Agriculture, Maseru
Annual Report Cawthron Institute, Nelson, N.Z.
Annual Report Cheshunt Experimental and Research Station, Cheshunt, Hertfordshire
Annual Report Coffee Research and Experiment Station, Lyamungu, Moshi, Tanganyika
Annual Report Council for Scientific and Industrial Research, Australia, Canberra
Annual Report Cyprus Department of Agriculture, Nicosia
Annual Report Delaware Agricultural Experiment Station, Newark
Annual Report Department of Scientific and Industrial Research New Zealand, Wellington
Annual Report Dominica Agricultural Department, Roseau

Annual Report Dominion of Canada Fruit and Vegetable Products Research Committee, Ottawa (?)
Annual Report Dominion of Canada Minister of Agriculture, Ottawa
Annual Report Dominion of Canada National Research Council, Ottawa
Annual Report Dominion of Canada Science Service, Department of Agriculture, Ottawa
Annual Report East Malling Research Station, near Maidstone, Kent
Annual Report Éire Minister of Agriculture, Dublin
Annual Report Fermentation Industries, London
Annual Report Field Experiments on Sugar Cane, Trinidad, Port of Spain
Annual Report Florida Agricultural Experiment Station, Gainesville
Annual Report Fruit and Vegetable Preservation Research Station, Campden, Gloucestershire
Annual Report Georgia Experiment Station, Experiment
Annual Report Gold Coast Department of Agriculture, Accra
Annual Report Imperial Council of Agricultural Research, India, New Delhi
Annual Report Indian Tea Association, Scientific Department, Toklai, Assam
Annual Report Iowa Agricultural Experiment Station, Ames
Annual Report Jamaica Department of Agriculture, Kingston
Annual Report John Innes Horticultural Institution, Merton, London
Annual Report Kvitthamar Vegetable Research Station, Norway
Annual Report Long Ashton Agricultural and Horticultural Research Station, Bristol
Annual Report Macaulay Institute for Soil Research, Craigiebuckler, Aberdeen
Annual Report Massachusetts Agricultural Experiment Station, Amherst
Annual Report Mauritius Department of Agriculture, Port Louis
Annual Report National Institute of Agricultural Botany, Cambridge
Annual Report National Institute of Agricultural Engineering, Askham Bryan, York
Annual Report Nebraska Agricultural Experiment Station, Lincoln
Annual Report New Jersey Agricultural Experiment Station, New Brunswick
Annual Report New Zealand Department of Agriculture, Wellington
Annual Report Nigeria Agricultural Department, Ibadan
Annual Report Northern Ireland Agricultural Research Institute, Hillsborough
Annual Report Northern Rhodesia Department of Agriculture, Mazabuka
Annual Report Nova Scotia Fruitgrowers Association, Kentville

Annual Report Nyasaland Department of Agriculture, Zomba
Annual Report Ohlzens Enkes pathologische Laboratorium, Copenhagen
Annual Report Palestine Department of Agriculture, Jerusalem
Annual Report Pennsylvania Agriculture Experiment Station, State College
Annual Report Queensland Acclimatization Society, Brisbane
Annual Report Rubber Research Board Ceylon, Colombo
Annual Report Seychelles Department of Agriculture, Mahé
Annual Report Sierra Leone Department of Agriculture, Freetown
Annual Report St. Vincent Agriculture Department, Kingstown
Annual Report Sugar Cane Research Station, Réduit, Mauritius
Annual Report Tanganyika Department of Agriculture, Dar-es-Salaam
Annual Report Tea Research Institute Ceylon, St. Coombs, Talawakelle
Annual Report Texas Agricultural Experiment Station, College Station
Annual Report Tucuman Agriculture Experiment Station [contained Revista industria y agrícola Tucuman]
Annual Report Uganda Department of Agriculture, Entebbe
Annual Report Washington Agriculture Experiment Station, Pullman
Annual Report West African Cacao Research Institute, Tafo, Gold Coast
Annual Report Madras Presidency, Work of the Agricultural Stations, Madras
Annual Report Zanzibar Protectorate Department of Agriculture, Zanzibar
Archiv für Microbiologie, Berlin
Ärsskrift från Lantbruks- och Mejeri Trädgårdsinstitut vid Alnarp, Sweden
Arxiu, Barcelona
Australian Journal of Experimental Biology and Medical Science, Adelaide
Beretning fra Statens Redskabsudvalget, Copenhagen
Bericht der eigenössischen Versuchsanstalt für Obst- Wein- und Gartenbau in Wädenswil, Switzerland [contained in Landwirtschaftliches Jahrbuch der Schweiz]
Bericht der eigenössischen landwirtschaftlichen Versuchsanstalt Zürich Oerlikon, Switzerland [contained in Landwirtschaftliches Jahrbuch der Schweiz]
Better Fruit, Portland, Oregon
Biennial Report West Virginia Agriculture Experiment Station, Morgantown
Biochemical Journal, London
Biohimija, Moscow and Leningrad [Russian]

LIST OF PUBLICATIONS

- denkunde und Pflanzenernährung, Berlin
- oletim do Instituto de Experimentação Agrícola, Ministério da Agricultura, Rio de Janeiro
- oletim da Junta Nacional das Frutas, Lisbon
- oletim do Ministerio de Agricultura, Rio de Janeiro
- oletim da Superintendência dos Servicos do Café, São Paulo
- oletim Técnico do Instituto Agrônômico do Norte, Belem, Brazil
- oletim del Departamento de Agricultura, Republica del Ecuador, Quito
- oletim de la Estacion Experimental Agrícola de Tucuman, Tucuman
- oletim Frutas y Hortalizas, Buenos Aires
- oletim del Instituto Nacional de Investigaciones y Experiencias Agronómicas y Forestales, Madrid
- oletim Popular Departamento Nacional de Agricultura, San Pedro de Montes de Oca, Costa Rica
- otanical Gazette, Chicago
- otanical Review, Lancaster, Pa.
- ulletin Agricole du Congo Belge, Brussels
- ulletin d'Agriculture du Sud-Ouest, Toulouse
- ulletin Arkansas Agricultural Experiment Station, Fayetteville
- ulletin California Agricultural Experiment Station, Berkeley
- ulletin Cornell Agricultural Experiment Station, Ithaca, N.Y.
- ulletin Direction de l'Agriculture de l'Algérie, Algiers
- ulletin of Entomological Research, London
- ulletin Georgia Agricultural Experiment Station, Experiment
- ulletin of the Imperial Institute, London
- ulletin Institute of Grain Husbandry, S.E. U.S.S.R. Saratov [Russian]
- ulletin International, Académie Tchèque des Sciences, Prague
- ulletin Iowa Agricultural Experiment Station, Ames
- ulletin du Jardin Botanique de l'État, Brussels
- ulletin Kentucky Agricultural Experiment Station, Lexington
- ulletin Louisiana Agricultural Experiment Station, University Station
- ulletin Maryland Agricultural Experiment Station, College Park
- ulletin Massachusetts Agricultural Experiment Station, Amherst
- ulletin Ministry of, Agriculture and Fisheries, London
- ulletin Missouri Agricultural Experiment Station, College Station, Columbia
- ulletin Montana Agricultural Experiment Station, Bozeman
- ulletin Nebraska Agricultural Experiment Station, Lincoln
- ulletin New Jersey Agricultural Experiment Station, New Brunswick
- ulletin New Mexico Agricultural Experiment Station, State College
- ulletin New York State Agricultural Experiment Station, Geneva, N.Y.
- ulletin Ohio Agricultural Experiment Station, Wooster
- Bulletin Oklahoma Agricultural Experiment Station, Stillwater
- Bulletin Southern Co-operative Series Experiment Station, Raleigh, N.C.
- Bulletin Texas Agricultural Experiment Station, College Station
- Bulletin Utah Agricultural Experiment Station, Logan
- Bulletin Virginia Agricultural Experiment Station, Blacksburg
- Bulletin Virginia Truck Experiment Station, Norfolk
- Bulletin Washington Agricultural Experiment Station, Pullman and Puyallup
- California Citrograph, Los Angeles
- Campanha da Produção Agrícola Série B, Lisbon
- Canadian Food Packer, Gardenvale, Quebec
- Canadian Horticulture and Home Magazine, Ottawa
- Canadian Journal of Research, Ottawa
- Ceres, Uicosoa, Brazil
- Chemistry and Industry, London
- Chronica Botanica, Waltham, Mass.
- Circular Cheshunt Experimental and Research Station, Cheshunt, Herts
- Circular Departamento de Genetica, Instituto Experimental de Agricultura, El Valle, Venezuela
- Circular Estación Experimental Agrícola de Tucuman, Tucuman
- Circular Hawaii Agricultural Experiment Station, Honolulu
- Circular Missouri Agricultural Experiment Station, Columbia
- Circular Montana Agricultural Experiment Station, Bozeman
- Circular New Jersey Agricultural Experiment Station, New Brunswick
- Circular Texas Agricultural Experiment Station, College Station
- Circular United States Department of Agriculture, Washington, D.C.
- Citrus Grower, Uitenhage, C.P., Union of S. Africa
- Citrus News, Melbourne
- Collected Papers Canadian Committee on Food Preservation, Ottawa
- Collective Farming, see Kolhoznoe
- Colonias y Foresta, Lima, Peru
- Communications faites au Comité Régional de la Prune d'Ente et d'Arboriculture Fruitière, Agen.
- Comptes rendus hebdomadaires des séances de l'Académie d'Agriculture de France, Paris
- Comptes rendus des séances de l'Académie des Sciences, Paris
- Comptes rendus (Doklady) de l'Académie des Sciences de l'URSS, Moscow
- Contribution Brooklyn Botanic Garden, Brooklyn
- Courrier horticole, Brussels
- Cours-Conférences du Centre de Perfectionnement technique, Paris
- Cultuur en Handel, Laken, Brussels
- Current Science, Bangalore
- Documents et Renseignements Agricoles de l'Algérie, Bulletin, Algiers
- East African Agricultural Journal, Amani
- Empire Journal of Experimental Agriculture, Oxford
- Endeavour, London
- Extension Bulletin Michigan Agricultural Experiment Station, Lansing
- Farm Home Science, Logan, Utah
- Farmers' Bulletin United States Department of Agriculture, Washington, D.C.
- Farmers' News Letter Soils and Irrigation Extension Service, Council for Scientific and Industrial Research Australia, Griffith
- Farming, Norwich, England
- Farming in South Africa, Pretoria
- Final Report British Intelligence Objectives Sub-Committee, H.M.S.O., London
- Flugschrift Wädenswil Versuchsanstalt für Obst- Wein- und Gartenbau, Wädenswil, Switzerland
- Flygblad fran Statens Växtskyddsanstalt, Stockholm
- Food in Canada, Ottawa (?)
- Food Preservation Quarterly, C.S.I.R. East Melbourne
- Forschungsergebnisse aus dem Gebiet des Gartenbaues, Zürich
- Forschungsdienst, Berlin
- Fruit Belge, Liège
- Fruit-grower, Market Gardener and Glasshouse Nurseryman, London
- Fruit Products Journal, New York
- Fruiteelt, The Hague
- Fruit World of Australasia, Melbourne
- Fruits d'outre mer, Paris
- Fruits et Primeurs, Casablanca, Morocco
- Gardeners' Chronicle, London
- Gartner-Tidende, Copenhagen
- Genetica, The Hague
- Grundlagen und Fortschritte im Garten- und Weinbau, Stuttgart
- Hameshek Hakhaklay, Palestine [Hebrew]
- Handelingen Nederlandsch Natuur- en Geneeskundig Congres, The Hague
- Hassadeh, Tel-Aviv [Hebrew]
- Hilgardia, Berkeley, Calif.
- Indian Farming, New Delhi
- Indian Journal of Agricultural Science, New Delhi
- Isvestia Academy of Science, U.S.S.R. Biological Series, Moscow and Leningrad [Russian]
- Italia Agricola, Piacenza
- Jaarverslag Centrale Bemestingsproefveld voor de fruitteelt "De Lange Ossenkampen", Wageningen
- Jaarverslag Proeftuin te Aalsmeer
- Jaarverslag Vereniging "De Proeftuin" te Boskoop
- Jaarverslag Proeftuin "Hollandsch-Utrechtsch Veendistrict" te Amsterdam
- Journal of Agricultural Research, Washington, D.C.
- Journal of Agricultural Science, London
- Journal of Agriculture Western Australia, Perth

LIST OF PUBLICATIONS

Journal of the American Chemical Society, Easton, Pa
 Journal of the American Society of Agronomy, Geneva, N.Y.
 Journal of the Association of Official Agricultural Chemists, Washington, D.C.
 Journal of the Australian Institute of Agricultural Science, Sydney
 Journal of Bacteriology, Baltimore, Md
 Journal of Biological Chemistry, Baltimore, Md
 Journal Botanique de l'URSS, Leningrad [Russian]
 Journal of the Council for Scientific and Industrial Research, Australia, Melbourne
 Journal of the Department of Agriculture, Eire, Dublin
 Journal of the Department of Agriculture, South Australia, Adelaide
 Journal of the Department of Agriculture, Victoria, Melbourne
 Journal of Economic Entomology, Menasha, Wisconsin
 Journal of Genetics, London
 Journal of Heredity, Washington, D.C.
 Journal of the Jamaica Agricultural Society, Kingston
 Journal of the New York Botanical Garden, Lancaster, N.Y.
 Journal of Pomology and Horticultural Science, London
 Journal of the Royal Agricultural Society, London
 Journal of the Royal Horticultural Society, London
 Journal of the Royal Society of Arts, London
 Journal of the Royal Statistical Society, London

Kolhoznoe Proizvodstvo (Collective farming) Moscow [Russian]
 Kongliga Landbruksakademins Handlingar och Tidskrift, Stockholm

Landbouwkundig Tijdschrift, The Hague
 Landwirtschaftliche Jahrbücher, Berlin
 Landwirtschaftliches Jahrbuch der Schweiz, Bern

Leistungssteigerung im Gartenbau, Wiesbaden

Libri dell' Agricoltore, S.A. Dante Alighieri, Genoa, Rome and Naples

Meddelande Jordbruksförsöksanstalten, Stockholm

Meddelande från Statens Trädgårdsförsök, Malmö

Meddelelse fra Statens Forsøgsvirksomhed i Plantekultur, Copenhagen
 Mededeelingen Directeur van den Tuinbouw, The Hague

Mededeelingen van den Inspecteur van den Tuinbouw en het Tuinbouwonderwijs [Holland]

Mededeelingen van het Laboratorium voor Tuinbouwplantenteelt Landbouwhoogeschool te Wageningen

Mededeelingen en Overdrukken van het Instituut voor Onderzoek en het Gebied van Verwerking van Fruit en Groenten te Wageningen

Mededeelingen van het Instituut voor Phytopathologie Laboratorium voor Bloembollenonderzoek te Lisse
 Mededeelingen van het Instituut voor Tuinbouwtechniek, Wageningen
 Mededeelingen van het Laboratorium voor Plantenphysiologisch Onderzoek te Wageningen

Mededeelingen van de Landbouwhoogeschool te Wageningen

Mededeelingen van de Landbouwhoogeschool Staat Gent

Mededeelingen van het Proefbedrijf voor Geneeskragtige, Aromatische en aanverwante Gewassen te Buitenpost

Mededeelingen van het Rijkstuinbouwvoorlichtingsdienst te Aalsmeer

Mededeelingen van den Tuinbouwvoorlichtingsdienst, The Hague

Memoir Cornell Agricultural Experiment Station, Ithaca, N.Y.

Memoir Department of Agriculture Gold Coast, Accra

Mimeograph Dominion of Canada Department of Agriculture, Ottawa

Mimeograph Rijkstuinbouwvoorlichtingsdienst te Aalsmeer

Minnesota Horticulturist, Minneapolis

Miscellaneous Bulletin Imperial Council of Agricultural Research India, New Delhi

Miscellaneous Publication of the United States Department of Agriculture, Washington, D.C.

Monthly Bulletin of Agricultural Science and Practice, Rome

Monthly Bulletin Coffee Board of Kenya, Nairobi

Nanking Journal, Nanking

National Horticultural Magazine, Baltimore, Md

Nature, London

(Nature) [Russian], see Priroda

New Phytologist, Cambridge and Oxford

New Zealand Journal of Agriculture, Wellington

New Zealand Journal of Science and Technology, Wellington

Orchardist of New Zealand, Wellington

Overdrukken van het Laboratorium voor Tuinbouwplantenteelt en het Instituut voor Onderzoek op het Gebied van Verwerking van Fruiten en Groenten te Wageningen

Overdrukken van het Laboratorium voor Tuinbouwplantenteelt te Wageningen

Owoścewstwo (Vegetable growing), Moscow [Russian]

Palestine Journal of Botany, Jerusalem Series

Palestine Journal of Botany, Rehovot Series

Pamphlet Tanganyika Department of Agriculture, Dar es Salaam

Paper of the Department of Applied Biology, Nanking University

Phenological Report, London

Phytopathology, Ithaca, N.Y.

Plant Physiology, Lancaster, Pa

Planters' Chronicle, Nilgiri, India

Press Bulletin Florida Agricultural Experiment Station, Gainesville

Priroda (Nature), Leningrad [Russian]

Proceedings of the Agricultural Society Trinidad and Tobago, Port of Spain

Proceedings of the American Society Horticultural Science, Geneva, N.Y.

Proceedings of the Convention of American Pomological Society, Ames, Iowa

Proceedings of the Conference of Association of Special Libraries & Information Bureaux [Aslib], London

Proceedings of the Lenin Academy Agricultural Sciences, Moscow [Russian]

Proceedings of Pennsylvania State Horticultural Association, State College, Pa.

Proceedings of the Scientific Conference held at the Timirjazev Agricultural Academy [Russian]

Proceedings of the Washington State Horticultural Association

Procès-verbal de l'Académie d'Agriculture de France, Paris

Progrès agricole et viticole, Montpellier

Publications (mainly out of series) of All Russian Society for the Preservation of Nature [Russian]

All Union Research Institute of Tea and Tung Oil, Tbilisi [Russian]

Armenian State Publishers, Yerevan [Armenian]

Bureau of Entomology, Plant Quarantine, U.S. Department of Agriculture, Washington, D.C.

Cawthron Institute, Nelson, N.Z.

Departamento de Propaganda Agrícola, Lima

Direccion General de Marruecos Colonias, Madrid

Dominion of Canada Department of Agriculture, Ottawa

Institut National pour l'Étude Agronomique du Congo Belge, Yangambi

Instituto de Genética, Universidad de Buenos Aires, Facultad de Agronomía

Kazak Agricultural Research Institute, Kazgosizdat, Alma Ata [Russian]

Kirov Province Printing Office [Russian]

Lenin Academy of Agricultural Science, Institute of Plant Industry [Russia]

Ministry of National Education, Yalta [Yugoslavian]

Moscow Workers [Russian]

Regio Laboratorio Crittogamico, Padua, Italy

Royal Horticultural Society, London

Saratov Fruit and Vegetable Research Station, Saratov [Russian]

Section de Selection et de Contrôles, Montpellier, France

Société Centrale d'Agriculture du Gard, Nîmes, France

Société Centrale d'Horticulture de la Seine Inférieure, Comité de Propagation, Rouen, France

Station Fédérale d'Essais Viticoles Arboricoles, Lausanne

Unidad Nacional de Tucumán, Departamento de Investigación Regional, Instituto de Investigaciones Agrícolas

Punjab Fruit Journal, Lyallpur

LIST OF PUBLICATIONS

- Quarterly Journal Michigan Agricultural Experiment Station, East Lansing
Quarterly Circular Ceylon Rubber Research Scheme, Agalawatta
Quarterly Review of the Skandinaviska Banken, Stockholm
Queensland Agricultural Journal, Brisbane
Queensland Journal of Agricultural Science, Brisbane
- Reports Annuels de la Station Fédérale d'Essais Viticoles et Arboricoles à Lausanne et Domaine de Pully [contained in Landwirtschaftliches Jahrbuch der Schweiz]
Report pour les Exercices, Institut National de l'Étude Agronomique du Congo Belge, Yangambi
Recueil Communication, Institut National de l'Étude Agronomique du Congo Belge, Yangambi
Report to the Berri-Barmera Frost Committee, Berri, S. Aust.
Report Cocoa Conference London May-June 1945. H.M.S.O. London, Colonial 192
Report of the Hawaii Agricultural Experiment Station, Honolulu
Report of the Iowa Agricultural Research Station, Ames
Report on the trial of new varieties of hops, East Malling, Kent
Research Bulletin Nebraska Agricultural Experiment Station, Lincoln
Research Bulletin Pennsylvania Agricultural Experiment Station, State College
Revista agrícola Guatemala, Guatemala
Revista de Agricultura, Industria y Comercio de Puerto Rico, S. Juan
Revista de Agricultura São Paulo, Piracicaba
Revista argentina de Agronomía, Buenos Aires
Revista do Departamento Nacional do Café, Rio de Janeiro
Revista de la Facultad de Agronomía, Buenos Aires
Revista industria y agrícola de Tucuman
Revista Mensual Ferrocarril de Buenos Aires al Pacifico, Buenos Aires
- Revue agricole de l'île Maurice, Port Louis
Revue d'Agriculture de France, Paris (?)
Revue horticole suisse, Châtellaine, Geneva
Revue d'Oka, La Trappe, Quebec
Rhodesia Agricultural Journal, Salisbury
Rivista di Frutticoltura, Ravenna, Italy
- Sborník Československé Akademie Zemědělské, Prague
Schweizerische Zeitschrift für Obst- u. Weinbau, Wädenswil
Science, Lancaster, Pa
Scientific Agriculture, Ottawa
Scientific Bulletin Department of Agriculture, Union of South Africa, Pretoria
Scientific Report of the Naryon State Plant Breeding Station [Russian]
Scottish Journal of Agriculture, Edinburgh
Sessional Paper Legislative Council Protectorate of Zanzibar, Zanzibar
Socialističeskoe Sel'skoe Hozjaistvo (Socialist Agriculture), Moscow [Russian]
Socialističeskoe Zemledelie (Socialist Cultivation), Moscow [Russian]
Soil Science, Baltimore, Md
Sovetskaja Botanika, Moscow [Russian]
Sovhoznoe Proizvodstvo (State farming), Moscow [Russian]
State Publication of Rural Economy, Moscow [Russian]
Stroskrifter Sveriges Pomologiska Förening, Stockholm
Sveriges Pomologiska Förenings Arsskrift, Stockholm
- Tasmanian Journal of Agriculture, Hobart
Tea Quarterly, St. Coombs, Talawakelle, Ceylon
Technical Bulletin Arizona Agricultural Experiment Station, Tucson
Technical Bulletin Oklahoma Agricultural Experiment Station, Stillwater
Thesis for Doctor's degree at the University of Amsterdam
Thesis for Doctor's degree at the University of Baarn
Thesis for Doctor's degree at the University of Utrecht
Thesis for Doctor's degree at the University of Wageningen
Tijdschrift over Plantenziekten, Wageningen
- Transactions of the British Mycological Society, London
Transactions of the Institute of Polar Agriculture, Series Agronomy, Leningrad [Russian]
Tropical Agriculture, Trinidad
Tropical Agriculturist, Peradeniya
Tuinbouw, The Hague
Tunisie Agricole, Tunis
- University of Queensland Papers of Department of Biology, Brisbane
Uspehi Sovremennoi Biologii (Advances in modern biology), Moscow and Leningrad [Russian]
- Valtion Maatalouskoetöiminnan Julkaisu, Helsingfors
Valtion Maatalouskoetöiminnan Tiedonantoja, Helsinki
Växtskyddsnotiser, Stockholm
Vegetable Growing, see Owošćevodstvo
Verslag van de Werkzaamheden verricht door het Instituut voor Onderzoek op het Gebied van Verwerking van Fruit en Groenten, Wageningen
Verslag van der Proeftuin te Leek
Verslag van het Proef- en Verwerkingsbedrijf de Teelt van Geneeskrachtige, Aromatische en aanverwante Gewassen te Buitenpost, Buitenpost
Verslag Vereniging "De Proeftuin" te Boskoop [= Jaarverslag . . .]
Vestnik Socialističeskogo Rastenievodstva (Soviet plant industry record), Moscow and Leningrad [Russian]
- Wisconsin Horticulture, Madison
Worcestershire Agricultural Chronicle, Worcester
- Yearbook California Avocado Society, Los Angeles
Yearbook Danish Horticultural Society, see Aarbog
Yearbook of the Royal Veterinary and Agricultural College, Copenhagen
- Zentralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten, 2te Abtg., Jena

